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THE AMERICAN RIFLEMAN

★ 1885-1888 The Rifle ★ 1888-1906 Shooting and Fishing ★ 1906-1923 Arms and the Man

OFFICIAL JOURNAL OF THE NATIONAL RIFLE ASSOCIATION OF AMERICA

Vol. 108 No. 5

May 1960

Walter J. Howe, *Editor*

John A. Harper, Jr., *Managing Editor*

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COVER

In June 1953, while on his way from Alaska to his home in Somerville, Mass., Arthur Fantasia stopped off in Yellowstone National Park. He photographed this velveted bull elk there with an Agfa folding camera. Ansco Color film, 1/50 second

THE AMERICAN RIFLEMAN is published monthly by The National Rifle Association of America, 1600 Rhode Island Avenue, N. W., Washington 6, D. C. for the benefit of its members. Domestic Rates (United States and possessions) \$5.00 a year, \$9.00 for two years, \$12.50 for three years; elsewhere add \$1.00 a year for foreign postage. Copyright 1960, National Rifle Association of America. All rights reserved. Second class postage paid at Washington, D. C. For change of address, give both new address and old address as it appears on address label. Not responsible for loss of or damage to unsolicited manuscripts or photographs.

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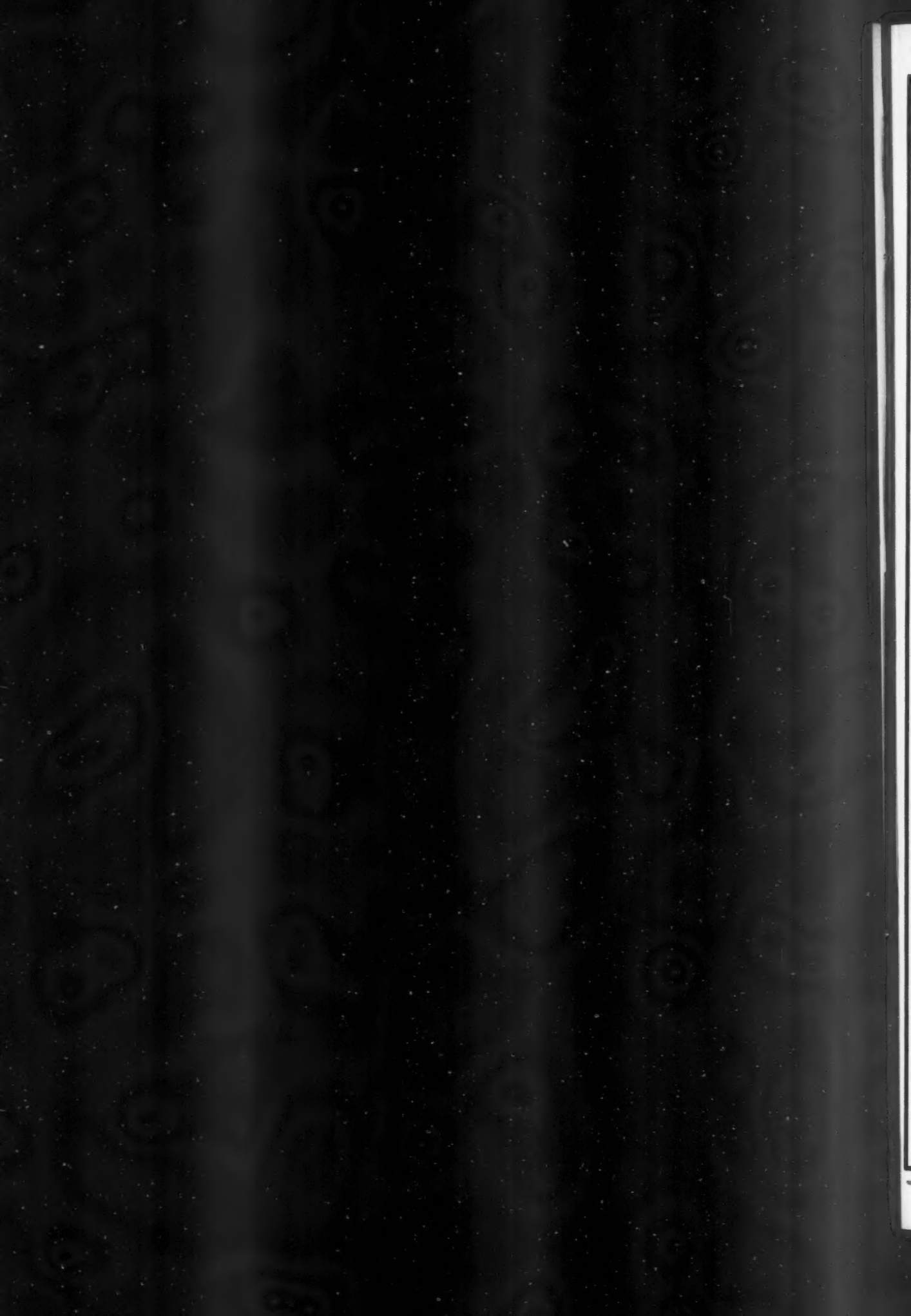
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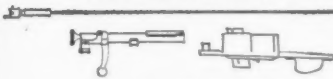
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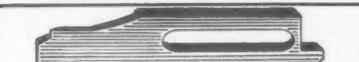
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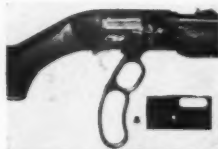
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A Court Case of Consequence

DURING the day Takase discovered that the glass near the lock in the door of his Los Angeles cafe had been cut, but not removed. Anticipating that someone intended to enter the place and burglarize it, he returned at 5:30 P.M. with a shotgun and secreted himself in the then-dark cafe.

Shortly thereafter he heard noises at the front door and saw shadows there. The glass was then broken, the door was opened, and the forms of 2 persons entered. They were unaware of Takase's presence.

When Nakashima, one of the intruders, entered a passageway between rooms, thus placing himself in a direct line of fire with Takase, the latter blazed away with the shotgun. Prior to the shooting no warning had been given to Nakashima, who at that time was still unaware of the presence of Takase, and who had made no move toward him. The shot inflicted a wound from which the burglar subsequently died. His heir brought a civil suit for damages against Takase, but no criminal action was ever filed by the state. The plaintiff heir was granted a judgment against the defendant cafe owner from which judgment Takase appealed to the District Court of Appeal of California.

This court considered the fact that the trial court had found the circumstances surrounding the entering of the store were such that Takase reasonably and properly could believe the intruders in his place of business were attempting to commit a felony. It noted he anticipated such a crime as a result of his discovery of the cut glass earlier in the day. Also his apprehensions were further corroborated by the fact that prior to returning to his store with the shotgun Takase had talked to a police officer about the matter.

The statutes of California provide that homicide is justifiable if committed by one in defense of his habitation, property, or person, and against another who manifestly intends to or endeavors by violence or surprise to commit a felony involving the same. Such killing, however, must be under circumstances sufficient to excite the fears of a reasonable person, who must have acted under the influence of such fears alone.

The Court of Appeal discussed the question of whether the defendant could be held for damages for shooting an intruder under such circumstances as were found in this case. It stated that had Nakashima recovered from the wound, instead of dying, he could not have prevailed in an action

brought by himself for damages. His heir, then, was in no better a position to collect.

These following pertinent comments appear in the court's opinion:

"We hold, however, that when two people burglariously break into the premises of another, the person in rightful possession is not called upon to give any warning to prevent another felony, to wit, theft of property, when as a reasonably prudent man he is justified in concluding from the circumstances of the entry that the felons have not only already committed one crime, to wit, burglary, but are about to commit another, to wit, theft, both with force and violence. There was force and violence used here in the act of breaking in, and defendant as a reasonable person had a right to assume that the two burglars were armed (although the evidence in this case shows they were not), and that, if interfered with, they would use further force and violence to consummate the theft they had planned or to make good their escape. Under such circumstances, defendant had a right as a reasonably prudent person to assume that if he gave any warning he would have to pay for his charity with his own life or to his great bodily harm."

Furthermore, the court said that aside from the fact that death resulted there was no proof that the cafe owner intended to kill the burglar. In this connection it was stated:

"The time-worn rule of torts is that a person has a right to use all such force as is reasonably necessary to protect his person or property. . . . If the wound inflicted on the deceased in the instant case had been slight, could it have been said that more than reasonable force was used? Because defendant, shooting in the dark, inflicted a fatal wound instead of a superficial one, is he to be penalized for his lack of marksmanship, of which he may have had none to start with, or conceding that he was more than an average marksman, is he then to be penalized for his inability to use such skill in the darkness and under circumstances conducive to great mental and physical excitement? We think not."

The circumstances, the court decided, were sufficient to justify the shooting and to exonerate Takase from any civil or criminal liability. It thereupon reversed the trial court and ordered that judgment be entered in favor of the defendant, Takase.—JUDGE BARTLETT RUMMEL

Mitsu Nakashima v. Takase, 1935, 8 Cal. App. 2d 35, 46 P. 2d 1020.



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The Armed Citizen

Law-enforcement officers cannot at all times be where they are needed to protect life or property in danger of serious violation. In many such instances the citizen has no choice but to defend himself with a gun. Below are accounts of recent instances digested from newspaper clippings sent in by NRA Members.

When 2 bandits said, "It's a stickup; everybody stay put," Los Angeles jewelry clerk **Kenneth Walton** lunged for the cal. .38 revolver he keeps handy on top of the safe. One bandit scuffled with Walton, bit him on the arm, and Walton fired 3 times. The robber fell with a bullet in his heart and the accomplice fled during the melee. (Los Angeles Times)

Chicago jeweler **William S. Kraicek**, suspicious of the stranger who entered his shop, quietly removed his pistol from a drawer behind the counter. When the stranger pulled a cal. .32 pistol and announced a stickup, Kraicek fired 3 times. The bandit, an ex-convict, was taken to hospital and pronounced dead on arrival. (Chicago American)

When a robber attacked him in the darkness of his back yard, **Bruce Haughey** mounted lights on the garage behind his **Topeka, Kans.**, home and secreted a cal. .38 pistol to carry on the walk to the house. Recently, home from work, Haughey put the car in the garage, got his pistol, and emerged into the yard to be met by 2 robbers. Haughey fired, wounding one of the felons with 2 bullets as the confederate fled. (Topeka State Journal)

Sixty-year-old **George Saddle** managed to reach his cal. .38 revolver and fire 2 shots at his assailants just before collapsing in his **Philadelphia** candy store from an assault by 3 bandits. When police responded to a report of gunfire, they found a suspect lying on the sidewalk near the candy store, a paralyzing bullet wound in his back. (Philadelphia News)

Bartender **Curtis H. Scott** closed his **East St. Louis, Ill.**, tavern for the night, walked past the nearby alley, and was accosted by 2 robbers who forced him at gunpoint to return to the saloon. Pushing the bartender inside, the bandits grabbed the cash box containing \$823 and were about to leave when the burglar alarm went off. Scott pulled his cal. .32 revolver and fired, the panicky bandits abandoning the loot in their haste to reach the getaway car. They made good their escape but 2 surrendered to police shortly after dropping off their bullet-wounded companion at a hospital. (St. Louis Post-Dispatch)

Two men bought soft drinks in **Cecil Saunders' York County, Va.**, general store, shot him in the knee with a cal. .22 pistol, then demanded all the cash. The storekeeper gave them over \$400 in bills and the bandits fled to their car. Saunders grabbed his cal. .38 revolver and hobbled to the door, firing at the running felons. Police found the car

and the bandits parked a few miles down the road, both occupants bleeding from lung and groin wounds. (Newport News Daily Press)

In **St. Catharines, Ont.**, Mrs. **J. C. R. Fitzgerald**, a widow in her 80's, refused when a burglar broke into her bedroom and demanded her jewelry. Instead, Mrs. Fitzgerald reached for her cal. .38 revolver in the shoebag hanging on the door near her bed. The burglar tried to wrest the gun away, the widow fired, and the would-be jewel thief fled the house. "The last time I remember firing it was many, many, years ago," said Mrs. Fitzgerald, "but my gardener has kept it cleaned and loaded for me." (Buffalo Courier-Express)

In **New York City's** theatrical district, actor **Jay Scott** awakened in his apartment and saw a burglar on a fire escape opening the window of a nearby flat. Scott tried to telephone police, but gave up when he heard a woman scream as the intruder entered her apartment. The man fled in panic, burst into the hall, and entered the next apartment where more female screams caused him to flee to the scene of his original entry. As he climbed back out the window, actor Scott, in his apartment window, fired one shot from a hunting rifle. Felled with a leg wound, the intruder was taken by police on the fire escape landing. (New York Journal-American)

In **Fort Fairfield, Maine**, Mrs. **Otis Flannery** woke her husband, grabbed a Luger pistol, and ran across the road to their store where they surprised 2 burglars. Mrs. Flannery forced the pair to lie at gunpoint on the floor and held them until a policeman arrived to take them to jail. Then Mrs. Flannery discovered 2 accomplices at the nearby getaway car. They fled at her approach but halted when she fired the Luger at them. Mrs. Flannery held the gun on her prisoners and called police again. (Fort Fairfield Review)

In **Chattanooga, Tenn.**, ham radio operator **George Zarzour** had just retired when he heard someone tampering at the window. With the crash of glass, George, now joined by brother **Abe** who had been sleeping, armed himself with a cal. .38 revolver and gave another to Abe. When the burglar reached through and opened the window, George slipped through the door to the street, flicked on the outside light, and fired at the figure inching in. The would-be burglar fled into the night, collapsed 2 blocks away, and died while undergoing surgery for 3 bullet wounds. (Chattanooga News-Free Press)

MEMBERS—Please send all such newspaper clippings to: Editor, THE AMERICAN RIFLEMAN

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2½X to 10X

Variable RIFLESCOPE



The United "Golden Rifleman". A scope with multi-power (2½, 3, 4, 5, 6, 7, 8, 9, and 10 Power!) reasonably priced. Fingertip power control. Internal windage and elevation adjustments. Cross hair reticle. Weather resistant. 1" tube. Hard Coated thru-out. SPECIFICATIONS: Weighs 13½ oz.; 12¼" long; 31 mm objective and eye piece lens. Field at 100 yards 2½X—28"; 3X—28"; 4X—28"; 5X—28"; 6X—28"; 7X—25"; 8X—22"; 9X—19"; 10X—17". Fine leather Scope Lens Caps included. Do UNITED scopes sell well? "Received the 2 Riflescopes and am pleased both with their appearance and performance. Have six more sold!" BRATTON GUN SHOP, INDIANA

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GIANT 40 MM Objective lens for MORE light, SHARPER images! Our finest scope. For every type of shooting. The power range is greater 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12 Power! The definition is excellent. The satisfaction the greatest. To see it is to want it. Finger-tip power control. Weather resistant. Cross hair reticle. Internal windage, elevation adjustments. 1" tube fits all standard mounts! Hard Coated thru-out. SPECIFICATIONS: Weighs 14¾ oz.; Length 13½". Field at 100 yards 3X—21"; 4X—21"; 5X—21"; 6X—21"; 7X—21"; 8X—21"; 9X—17½"; 10X—16"; 11X—14½"; 12X—13". Price includes fine leather Scope Lens Caps. It's UNITED scopes like the "GOLDEN PLAINSMAN" that make dealers write: "The first three UNITED scopes I ordered were sold and installed on customers' rifles. They have elicited much favorable comment both as to quality and as to appearance." ALPINE SHOP, CALIFORNIA

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Weighs only 13.4 oz.; 12 1/4" long. Field at 100 yards: 3X-28'; 4X-28'; 5X-28'; 6X-28'; 7X-25'.

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Suggested list \$79.50
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\$46.75

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a full 4 POWER with a metal cross hair reticle. Weighs only 8 1/2 oz. Simple, built-in parallax adjustment. Water-Dust-Shock proofed. Has elevation and windage adjustments with click stops. Entire optic system 100% Hard Coated for brilliant sharp viewing. Eyepiece lens 31 MM! Its 1" tube fits all standard mounts. 4 x 21 GOLDEN CONDOR, 10 3/4" long. Exit pupil 5.2 mm. Field at 100 yards 21.5 feet. Suggested List \$24.95.

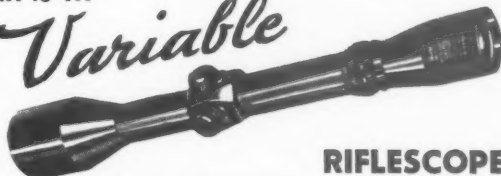
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Field at 100 yards 4X-24'; 5X-24'; 6X-24'; 7X-24'; 8X-23'; 9X-20', 13 1/4" long. Weighs 16 oz.

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Lightning-fast sighting with hair splitting accuracy. Double adjustment (internal windage and elevation with click stops). 1" tubes . . . fit all standard mounts. Give Bright, Crisp, Sharp images! Built-in parallax adjustment. Cross hair reticle. Handsomely blued. Durable. Weather Resistant. 100% Hard Coated!

Model	Length	Exit Pupil	Weight	Field 100 yds.
2 1/2 x 20	16"	8mm	7.8 oz.	43'
4 x 31	12 1/4"	7.8mm	9.5 oz.	28'
7 x 31	12 1/4"	4.5mm	9.5 oz.	28'
9 x 40	13 1/4"	4.5mm	12 oz.	20'
12 x 40	13 1/4"	3.3mm	12 oz.	11.3'

2 1/2X, List ----- \$31.95, Wholesale ----- \$17.95.
4X, List ----- \$35.95, Wholesale ----- \$20.95.
7X, List ----- \$49.50, Wholesale ----- \$24.75.
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12X, List ----- \$64.50, Wholesale ----- \$34.95.

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"Your 15X - 60X is a great scope. We can see .22 bullet holes at 200 yards in the black." WALT C. DALMAN, CUSTOM RELOADERS, Indiana.

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Rifle Remington News



A PAPER FOR PEOPLE WHO SHOOT

BRIDGEPORT, CONN., MAY 1960
Vol. 22, No. 30 First-Class Reading Matter for All Shooters

THE WEATHER:
Days mild, matches wild

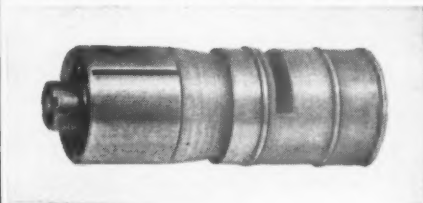
READ WHY SHOOTERS WHO KNOW VALUE DEMAND THE NEW REMINGTON 878 SHOTGUN!



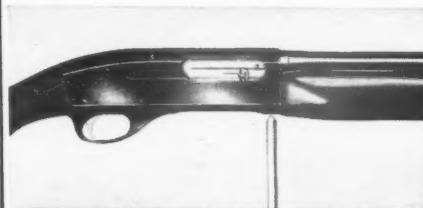
New Remington Model 878 "Automaster" Autoloading Shotgun. Quick-Change Barrel feature. Self-adjusting Power-Piston, "Power-Matic" action. American walnut stock. 3-shots. In 12 gauge only. \$114.95*

"AUTOMASTER" IS MADE FOR SHOOTERS WHO PUT PERFORMANCE FIRST

EXAMINE THIS FEATURE-BY-FEATURE PROOF OF MODEL 878'S SUPERIORITY



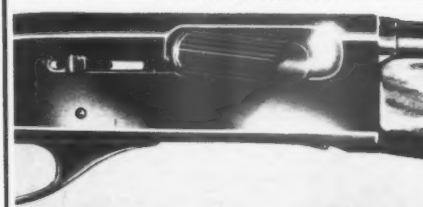
Self-Adjusting Power-Piston handles all types of standard-length loads—high base, low base and standard magnum. The mechanism automatically selects exactly the right amount of gas from the load to work the action. The gas doesn't bleed off until the shot has left the barrel, ensuring full power behind the shot column and a much cleaner gun.



Light Weight and Balance Where it Belongs. Model 878 weighs just 7 featherweight pounds . . . makes carrying an easy job. The gun's weight is distributed to give shooters a really fast-handling shotgun and to make swing and follow-through as natural as pointing a finger.



Quick-Change Barrels and Easy Take-Down. Model 878 barrels are interchangeable *without tools* for desired choke and barrel length. All you do is unscrew the magazine cap and lift off the barrel. And for easy cleaning, the trigger assembly comes out as a unit with the removal of two pins.



Supreme Dependability. The "Automaster" is ruggedly constructed for flawless performance. High-speed camera photographs of the cycle of operation show that moving parts are perfectly synchronized. These and other laboratory tests proved Model 878 the most trouble-free gas-operated shotgun ever built.

New Model 878 was engineered for the nonsensical shotgunner who would rather pay for a gun's fancy shooting than for its fancy looks. Every remarkable feature of the great "Automaster" was designed to add performance . . . and it all added up to the most perfect autoloader ever designed.

There's an amazing Power-Piston that virtually thinks for itself . . . adjusts from marshland to upland loads automatically. Dependable Model 878 also features exclusive "Power-Matic" action that sharply reduces recoil effect . . . you get those doubles more easily because you don't rock back on that first shot.

For all its ruggedness in muddy goose pits and heavy brush, the "Automaster" is an uncluttered, cleanly designed firearm you will be proud to put in your gunrack. The well-crafted American walnut stock is beautifully proportioned to add smoothness of swing as well as good looks to this fast-pointing firearm. In every way, it's more gun than many others costing up to fifty dollars more.

So pick up the Model 878 at your dealer's now. You can sharpen up on some spring-time crow hunting in practice for some big greenheads this fall!

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The Beretta .22 Cal. *Silver Gyrfalcon* is a modern featherweight rifle that has all the features a shooter wants. Beautifully finished in all details, it has the rugged simplicity that has made Beretta famous. Never has there been an action so easy to handle, so simple or so strong. *There are just 3 moving parts.* Each piece is individually machined, gauged and polished to insure strength and durability. Stampings are not used. The *Gyrfalcon* can be single loaded with .22 Long, Long Rifle and Shorts quite conveniently with the clip removed. The super-precision chrome-moly steel barrel is hand bedded to guarantee target accuracy. Perfect balance, sharp diamond checkering mean fast, secure handling.

SILVER GYRFALCON SPECIFICATIONS:

Caliber:	.22 L.R. Rim Fire with clip — without clip 22 Short, Long and L.R.
Action:	Recoil Operated — 4 Second Take Down
Magazine:	Clip — 10 Shot, Extra 5-10 and 20 Shot Clips Available. (Press Button Release)
Safety:	Cross Bolt built in Trigger Guard
Trigger:	External Adjustable
Sights:	Three Leaf Open Rear — Sheard Bead Front on Ramp. Receiver grooved for Beretta 3/4 inch Tip-Off Scope Mount
Stock:	DeLuxe Schnoble Italian Walnut Stock. 24 liner per inch diamond point hand checkering. Full Pistol Grip and Grip Cap. Equipped with Swivels.
Price:	\$72.95

Shooters using the Beretta *Companion* Hammerless Single Barrel Folding Shotgun are amazed at its popular price and its top level performance. The Beretta *Companion* is a deluxe gun from barrel to butt plate; it has the exceptional quality and unusual beauty of design plus the slick operating features of guns costing much more. One more Beretta first: The foldaway feature of this gun will appeal to all shooters who travel. *This shotgun can really be slipped into a suitcase.*

COMPANION SPECIFICATIONS:

Gauge:	12, 16, 20, 28 and 410 Gauge
Style:	Single barrel, breech loading, folding shotgun
Barrel:	Monobloc — Made from Beretta Alloy Steels
Action:	All parts machined from solid stock and forgings. To open or fold the <i>Companion</i> it is necessary only to pull back sharply on the Cocking Lever forward of the Trigger Guard. 410 Gauge is chambered for 3" shells — all other gauges for 2 3/4". Hammerless — the <i>Companion</i> is cocked — Ready for firing automatically when opened for loading
Safety:	Cross Bolt Type built in Trigger Guard
Sights:	Silver Bead Front Sight — Notched Rear Sight
Stock and Forearm:	Selected Italian Walnut Stock. Standard Stock Dimensions
Price:	\$41.95

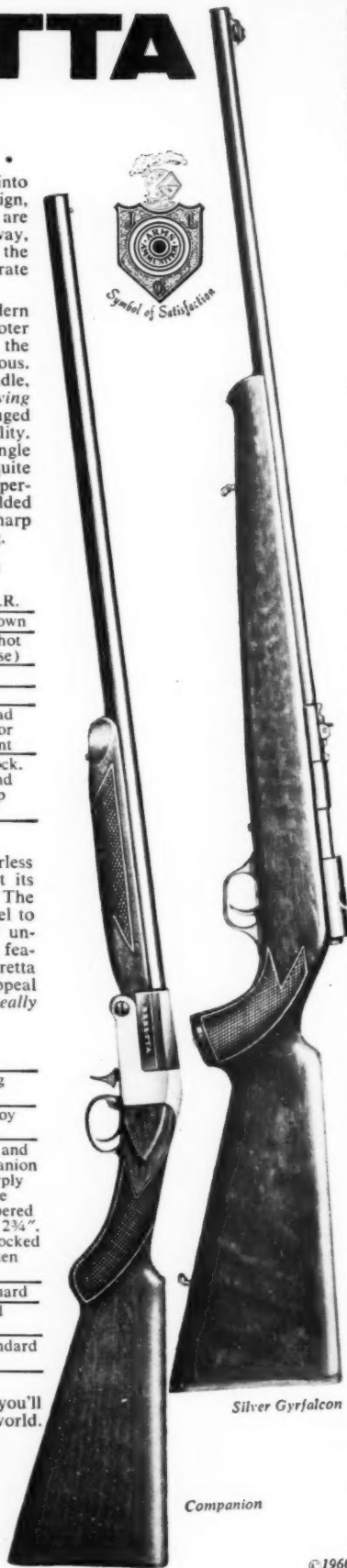
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Silver Gyrfalcon

Companion

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RICOCHETS

• NEW MILITARY WEAPON?

Chicago, Ill.

Editor:

A newspaper report states the Chief of Army Research & Development has testified before a congressional sub-committee that the Army hopes to eventually replace the M14 rifle which was adopted in 1957. That is certainly a very interesting statement, and I would like to know more about the matter and its background. Has THE RIFLEMAN kept us informed on this?

E. S. SMITH

The testimony you refer to was made known on Apr. 15.

Some newspaper accounts of it, however, did not convey all the information. The new development was clearly stated to be a weapon much smaller and lighter than a conventional rifle, and much more certain of hitting. Greatly increased hitting power for the soldier is desired, up to about 500 yds., with a smaller and lighter weapon than hitherto and with ammunition so light that large quantities can be carried. The Army hopes to have such a weapon available for adoption by 1965.

In the past, development of the soldier's individual weapon has consisted in replacing one rifle with another. It is evident that is not the case here. The official statement made it clear that the problem was studied from fundamental considerations, to find what kind of weapon could inflict the most casualties on the enemy.

THE RIFLEMAN has kept NRA members fully informed on all aspects of this development which have been made known by the responsible authorities. See THE RIFLEMAN articles: "Developments in .22 Military Rifles", July 1958; "The Armalite AR-15 Rifle", June 1959; and "Salvo Program", September 1959.

THE RIFLEMAN pointed out in these articles that no weapon ever adopted has proved to be the final one, and that research and development is a continuing process, each step of which must be taken long before it can show a result. The date of 1965 mentioned in this case should be especially noted.

THE RIFLEMAN is not interested in speculations or second guesses. You may be sure that as fast as definite information is available from the responsible authorities, it will be published promptly and fully in the magazine.—Ed.

YOU WILL NEVER MISS an issue of THE RIFLEMAN if you keep us posted when you move. Please write us 5 weeks in advance and include your old address as well as the new one. A post card with the information that appears on your RIFLEMAN mailing sticker, plus the new address, will do the trick.

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 .303 BRITISH CALIBER. Full price with scope is only \$49.88 . . . This is the rifle for the high-power target shooter and hunter who demands extreme accuracy. Only 1 out of every 1000 British Enfield No. 4 rifles made is selected by British Ordnance for their elite sniper troops. Each rifle is precision hand fitted, hand finished and fitted with specially processed marksmanship barrels to insure highest accuracy. Equipped with the select English No. 22, 4 power scope (same as used on the Bren machine gun), Walnut stock with Monte Carlo cheek rest, 25 1/2" barrel, overall length 44". All in excellent GUARANTEED (NRA) condition. Writing is like new.

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 Pay only \$5.00 Down, Balance \$2.35 per week for only 22 weeks. Certified \$280.00 Value. Cash Price, only at KLEIN'S. **\$49.88**

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 30/06 CALIBER. Full Price Only \$44.88! No more when these last 675 are sold. Amazing low price because they were received too late for the hunting season. Here's a great opportunity for you to own the world's most accurate military rifle, the most popular hunting rifle in the world's most popular caliber. Renowned "High Number" Government Model 1903, caliber 30/06, made when production was unhurried and finest materials were available. Has not been used in combat. Trigger guards, floor plates and all action parts are milled from solid steel, not stamped. 4-groove 24" barrels have clean sharp rifling—free of pits or corrosion. Select only American Walnut stocks. Famous Springfield sights adjustable to 2850 yds. windage and elevation. Pay only \$5.00 Down, Balance \$2.11 per week for only 22 weeks. Cash Price, only at KLEIN'S. **\$44.88**
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U. S. ARMY MODEL 1917—30/06 RIFLES
 6 Shot .30/06
 Own the best! The rifle designed for super strength! All NRA Very Good or Better! All milled parts . . . fresh from government cases—virtually unfired! Has famed Springfield-Hausser "speedlock" action designed to cock on closing, complete with precision micrometer sight. Bolt and safety designed for scope clearance. Pay only \$3.00 Down, Balance \$1.41 a week for only 22 weeks. Cash Price, only at KLEIN'S. **\$29.95**
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 The Greatest Rifle Offering Ever—Anytime! Anywhere!
 These are genuine, original M-1 semi-automatic Garands, all made at the world famous Springfield Armory! All are in "NRA Very Good" or better condition, all shoot any .30/06 cartridge—the world's greatest! All are GUARANTEED BY KLEIN'S. All with converted 23" barrels. All with original and all numbers matching. 24" barrel, 42" overall. While limited quantity lasts, pay only \$8.00 Down, Balance \$3.76 a week for only 22 weeks. Cash Price, only at KLEIN'S. **\$79.95**
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BSA MARTINI LEVER ACTION
 POWERFUL SINGLE SHOT HI-POWER RIFLE
 PERFECT FOR CHUCKS, FOX, PRAIRIE DOGS, PREDATORY CATS, DEER
 The BSA MARTINI-MARKSMAN is a great varmint or big game rifle, super-accurate, lightweight, made in England for officer training. Smooth, single shot lever action, sturdy, completely safe. Walnut stock, sling swivels, 23" barrel, overall length, only 32 1/2 lbs. Actions and barrels are used but in Very Good to Excellent condition. Stock appearance is good.

ORIGINAL .310 GREENER, great for varmints, etc. Bullet velocity 1200 ft. per second. Full Price, ONLY **\$12.88**
 .32 WINCHESTER SPECIAL, a hard hitting deer rifle—similar to the famed \$18.88 30/30. ONLY **\$29.95**
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 .32-20 . . . \$16.95
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 \$75.00 Value! FIRES .38 Super or 9 mm Luger!
 Another fantastic KLEIN'S SPECIAL PURCHASE direct from Spain! The STAR AUTO embodies the design features of the finest automatics in the world! Very much like the U. S. Gov't. .45 M1911-A1. The barrel is linked like an FN 9mm. The slide lock assembly is the same as the P-38. Easiest disassembly feature of any automatic pistol ever made. Shoots either .38 Super Auto or 9mm Luger cartridges. 8 shot, 5" barrel, 8 1/2" overall, Wt. 38 oz. Adjustable rear sight. Action stays open when last shot is fired. Thumb safety. Walking trigger. Comes in original factory box with extra magazine and cleaning rod. NRA "Very Good" condition. Pay only \$2.00 down, balance 94¢ a week for 22 weeks. KLEIN'S CASH PRICE, only . . . **\$19.95**
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 SPECIAL AMMO SCOOPI 9mm Luger, only \$5.00 per 100 rds., or 1,000 rounds for \$44.95.

MITCHELL 300 & R. J. COMPLETE SPINNING OUTFIT!
 Selling Like Hotcakes . . . and No Wonder!
 No Back Lash! Available Right or Left Handed. Complete \$46.75 value. Comes in original factory box with 1960 Mitchell 300 spinning reel, extra spool, plenty of line, lures, essential spinning accessories and a quality tackle box. \$40.00 Garcia-Compton "Royal Javelin" finest quality Reistered 614 or 7 of any automatic, pistol ever made. Powerglass Spinning Reel with Aluminum Case. Pay **\$3.50** down, \$1.84 a week for only 22 weeks. Cash Price, only at KLEIN'S. **\$34.95**

AIRNYLON AIR MATTRESS
 Lowest Price Ever! Brand new, 100% Du Pont Nylon. LON official U. S. Army Air Mattress. Weighs only 23 1/2 lbs. Size 25" x 73" inflated—will fit all sleeping bags. Cost U. S. \$21.00. 4 for \$20.00. **\$5.99** Postpaid KLEIN'S CASH PRICE, only **\$5.99** each
 SPECIAL! Above Nylon Air Mattress plus a \$32.50 Du Pont Dacron Fiberglass Insulated Sleeping Bag. Full zipper, water repellent canopy. \$22.00 down, \$4¢ a week for 22 weeks. Certified \$44.50 value. KLEIN'S CASH PRICE, both for only **\$19.95**
 FREE! KLEIN'S 144 page Hunting, Fishing, Golf and Camping Bargain Catalog is sent FREE with orders, or send 25¢.

WELBY .38 or .45 REVOLVER
 Famed by British Pilots and Officers. R. O. Y. I. Welby Revolver, now years at less than 24 the original gov't cost! 6 shot. Very Good, Gov't Choice: .38 or .45 caliber. **\$14.95** Cash Price
 (Only \$3 extra for select grade)

COLT 22 DERINGER
 Made in England. Cased pair of brass. New 22 short. Colt Deringer. P. I. & S. Co. Consecutive serial numbers. \$24.00 down, \$1.04 a week for 22 weeks. **\$39.95** Cash Price, per pair

TERRIFIC NEW GUN BOOK!
 NEW! "Encyclopedia of Modern Firearms." Edited by F. R. "Bob" Brownell, 1,066 Great Pages, 1,600 Exploded Gun Views. Weighs 8 lbs. Pay \$2.00 down, balance \$3.00 each month for only 6 months, or . . . **\$17.00** p.pd.

FRONTIER DERRINGERS
 \$19.95 up
 Exact duplicate of original Remington Double Derringer. All De Luxe Models with twin spring pins. .22 Blue—\$19.95; Chrome, .22—\$24.95. 1991 Space—\$24.95. All Brand New. First Quality. Pay only 10% Down, balance \$9.22 weekly, plus small service charge. .22 WMR—\$29.95.

ENFIELD .38 S & W NO. 2 MK I
 Only 1,000 to sell! Hurry!
 Until only recently these fine Enfield .38 Pistols were the standard of such famous World War II British units as the 5 A.S. (Special Air Service), the L.R.D.G. (Long Range Desert Group) and the famed "Commandos." One of the fastest loading .38's ever developed. It even replaced the .45 "Empire Builder" Webley . . . because of its lighter weight, better balance, greater accuracy and lower recoil. True double action . . . only system eliminates danger by not permitting the hammer to be cocked with the thumb—this fine revolver can only be fired by pulling back on the trigger. A natural for home defense or sport use. Shoots great .38 S&W cartridge, Sandblast dull finish, 5" barrel, 6 shots. "Good NRA" condition. **\$12.89**
 Klein's Cash Price, only
 (Only \$3.00 extra for above converted to 2" Smooth Nose barrel)
 Only \$3.00 extra for personal selection by Milt Klein.
 .38 S&W 145 grain cartridges, Box of 50—only \$4.30. Finest russet leather snap-on belt holster—a \$5.00 Value—Special, only \$3.50.

RARE! .303 JUNGLE CARBINES!
 303 British Caliber JUNGLE CARBINE Royal Enfield developed specifically for rough usage and bitter fighting in jungles of Burma, Borneo and Malaya. Lined jungle fan hider, light and compact sporter type stock. Easily converted to .303 British. Includes telescopic sight, 18" Brl., 7 1/4 lbs. NRA good condition. Pay British, 90 **\$6.75** for only 22 weeks. Klein's Cash Price. **\$24.88**

BRITISH ARMY RIFLE SMLE NO. 4 MARK I CALIBER .303 BRITISH
 The British rifle of World War II. Regarded as world's fastest bolt-action rifle. Lends Proof-House crown and markings. Enfield reliability and extreme accuracy for the range of hunting. SPECIFICATIONS: Overall length 43 1/2" barrel approx. 24 1/2" detachable 10-round magazine; sights, protected blade front, adjustable rear. SMLE No. 4 Mark I. "NRA Good condition." Klein's Cash Price, only **\$15.95**
 (Only \$3.00 extra for personal selection by Milt Klein)

303 ENFIELD MARK III, No. 1
 The workhorse rifle of the British Army. Used as late as the Korean War. Famed for its dependability, ruggedness and accuracy. Perhaps the smoothest, easiest bolt action ever made. All machined parts, adjustable sights. In .303 Br. caliber with 10 rd. capacity magazine. Easily converted to .303 British and stock. In perfect operating condition. Barrel length 25 1/2"; overall length 43 1/2". Weight 34 lbs. A Terrific buy at only **\$9.95**
 (Only \$3.00 extra for personal selection by Milt Klein)

SALE! 30/06 SPRINGFIELD
 4-Groove Barrel
 Very Limited Supply!
 Genuine original low numbered Springfield M'03 receivers with latest type components including adjustable sight, American Walnut Stock. Like new mechanical condition with sharp clean rifling, perfect operating condition. Barrel length 25 1/2"; overall length 43 1/2". Weight 34 lbs. A Terrific buy at only **\$34.88**
 AMMO SPECIAL: 30/06 Add \$5.00 for personal selection by Milt Klein; 90c for government cleaning rod; \$1.65 for new leather sling strap.
 Model 94
 SWEDISH MAUSER 6.5 CARBINE BARRELED ACTIONS—NO STOCKS!
 #94 Swedish Mountain Carbine 6.5 x 55 caliber, barreled actions, no stocks. NRA Good—\$24.99
 KLEIN'S CASH PRICE, only \$24.99
 6.5 Target Ammo, \$5.00 per 65. S&P point \$2.95 per 20.

LAST MINUTE SPECIALS! FOR NRA MEMBERS ONLY!
 100% Money Back Guarantee!
 .45 A.C.P. Ammo, \$5.00 per 100. . . half moon clips—100 for \$2.95; . . . Winchester used Model 67—22 bolt action single shot rifle, NRA Good—\$9.88; . . . 2 Piece Rubberized Rain & Storm Suit with hood—\$5.99 p.p.d.; . . . Famous New Spanish 10 Ga. 3 1/2" Magnum 32" Double. \$169.95 List—\$118.88 or \$133.88 with Auto Ejectors; . . . Mauser 71 84—11mm bolt action rifle, NRA Fair—\$12.88; . . . NRA Perfect—\$24.88; . . . Remington 341 Bolt Action 22 caliber repeating rifle, NRA Fair—\$10.95; . . . Astra 400—9mm Luger Auto Pistol, NRA Fair—\$14.95; . . . Colt 45 Auto Model 1911—A1, NRA Good—\$34.95; . . . New! 2 rare collector's Winchester Model 95—30 40 Krag Rifle, consecutive serial #'s: 401170 & 401171—\$495.00 p.p.d.; . . . 2 Man Rubberized Canvas Coat with caps and pump \$39.95; . . . 2 Piece Rubberized Rain & Storm Suit with hood—\$5.99 p.p.d.; . . . Kroydon Matched & Registered Golf Clubs, reg. \$15.00—\$9.95; . . . \$10.00 irons to match—\$4.95; . . . Wever 1960 Scope, K2.5 or K3—\$29.95; . . . K4—\$28.75; . . . K6—\$30.95; . . . K8 or K10—\$37.95; . . . Firearm book of GUNS, by Larry Koller—\$12.95 p.p.d., or \$2.00 down, balance in 4 months—no carrying charge.

MONEY BACK GUARANTEE
 KLEIN'S—Dept. R-5
 227 W. Washington St.
 Chicago 6, Illinois
 Established 1888

Cash Order Credit C.O.D.

RUSH: _____

MY NAME: _____

ADDRESS: _____

CREDIT CUSTOMERS: Send 10% or more Down Payment. You save the small service charge if balance of cash price is paid within 30 days. Otherwise, pay balance in 22 weekly payments, payable monthly, if you prefer.

NEW CREDIT CUSTOMERS: Include your credit and employment information with order and Down Payment.

CASH or C.O.D. CUSTOMERS: Send check or money order in full, or at least \$2.00 deposit on C.O.D. orders. Add only \$1.00 per any size order for postage, etc. Exception: Send \$1.00 per rifle for pp. Handguns, ammo and boats shipped via "Express Collect." (Send \$2.00 on C.O.D.'s)

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1960

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of the guns you have—
and the guns you want**

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You can have yours free, with your 14-issues-for-the-price-of-10 subscription to *Guns Magazine*. It's our way of introducing you to *Guns*, the magazine designed with hunters and shooters in mind. We guarantee you'll like *Guns*; if you don't, let us know, and we'll refund the unused portion of your subscription. You can lose nothing. Fill in the coupon below, and send it with your \$5 remittance, and we'll send the current issue of *Guns*, and your FREE Red Book immediately.

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*If received within time limit above.

What The Lawmakers Are Doing

THE 1960 state legislative year is well on the way toward becoming history. However, a few state legislatures will be in session, off and on, for quite some time. Moreover, Congress will not adjourn until the middle of the summer, and activity at the local level will be a continuing problem. Hence, shooter-sportsmen must be ever alert to the possibility of restrictive firearms control activity.

Hawaii

House Bill 358 (same as Senate Urgency Measure No. 86), by Akoni Pule, et al., eliminates the requirement of a hunting license for any person 16 years of age or over, or for any person under 16 years accompanied by a responsible adult, "to carry or use any lawfully acquired rifle or shotgun for target shooting". Referred to House Committee on Judiciary.

Massachusetts

House Bill 2710 (reported in April), providing for an appeal from a refusal to issue a license to carry a pistol or revolver, was signed by the Governor on Apr. 7.

STATUS OF BILLS REPORTED

(As of Apr. 11, 1960)

Bills reported in the January, February, March, and April issues of THE RIFLEMAN and not mentioned in this status roundup have either died or not changed in status since the last report (or are specifically mentioned above).

GEORGIA—H. B. 695, approved.
MASSACHUSETTS—H. B. 2494, approved.

MICHIGAN—H. B. 96, killed; H. B. 307, amended in House.

NEW JERSEY—A. B. 118, reported favorably in Assembly.

NEW YORK—All restrictive bills killed; A. B. 1534, approved; A. B. 2227, passed both houses; S. B. 927, approved.

SOUTH CAROLINA—H. B. 1955, approved.

VIRGINIA—H. B. 182, 703, approved; H. B. 604, 635, and S. B. 318, killed.

The following legislatures have adjourned: Alaska, Arizona, California, Colorado, Georgia, Kansas, Kentucky, Maryland, Nevada, New York, Virginia, and West Virginia.

Mississippi

House Bill 766, by Radford E. DuBois, provides that any person found in a game habitat and having a rifle or a shotgun and buckshot in his possession shall be prima facie evidence of headlighting a deer. Reported unfavorably by House Committee on Game, Fish and Wildlife.

House Bill 834, by William L.

Dickerson and George S. Corruht, makes it unlawful to fire a rifle within one-half mile of another person's residence. Referred to House Committee on Judiciary A.

Senate Bill 1911, by Claude V. Cornwell, et al., repeals the law exempting certain persons from the prohibition against carrying a pistol or revolver concealed. Reported unfavorably by Senate Committee on Judiciary.

Senate Bill 1912, by Claude V. Cornwell, et al., makes it unlawful for any private person to own a pistol or other deadly weapon, or to have in his possession for more than 30 days such a weapon not his own, unless said weapon shall have been registered with the sheriff. Reported unfavorably by Senate Committee on Judiciary.

Senate Bill 1913, by Claude V. Cornwell, et al., provides for the issuance of permits to proper persons to carry firearms concealed or otherwise. Reported unfavorably by Senate Committee on Judiciary.

New Jersey

Assembly Bill 518, by Beatrice M. Stiles, includes in the definition of a "pistol" or "revolver" a concealable firearm "designed for the firing of blank cartridges", thereby requiring a permit in order to purchase or to carry a pistol or revolver designed solely for the use of blank ammunition. Reported favorably by Assembly Committee on Judiciary.

Assembly Bill 575, by Raymond E. Bowkley, authorizes the county sheriff instead of the county judge to act as the issuing authority for a permit to purchase a pistol or revolver. Referred to Assembly Committee on Revision and Amendment of Laws.

New York

Assembly Resolution 182, by Committee on Rules, provides for a committee of 3 members each from the Committees on Codes and Conservation in both houses to study and make recommendations relative to existing laws on the sale and possession of firearms and ammunition. This committee shall report to the Legislature by Feb. 15, 1961. Passed both houses.

Rhode Island

House Bill 1458, by John H. Chafee, appropriates \$10,000 for the installation and maintenance of a high-power rifle range suitable for use by the citizens of Rhode Island. Referred to House Committee on Finance.

Only the NRA Provides all these Services for Gun Owners



Each of your interests in guns and shooting is matched by a National Rifle Association service. More than a quarter-million sportsmen take advantage of these services and thus increase their enjoyment of guns.

—If you like to read about guns, you'll want *The American Rifleman*, world's finest gun magazine.

—If you like to hunt, the NRA will give you many a tip on where to go, what to take with you and the best gun and ammunition for your game.

—If you like home gunsmithing, NRA will show you time, money and work-saving techniques.

—If you like to reload your own ammunition, NRA will give you practical advice on tools, components and loads.

—If you like shooting, NRA has a complete program, ranging from informal plinking to national championship matches.

—If you like to collect guns, NRA

furnishes assistance through its Gun Collectors Department.

—If you like teaching marksmanship, NRA offers you the chance to become a Certified Rifle, Pistol or Hunter Safety Instructor.

—If you'd like to meet new friends who share your interest in guns—and want a safe place to shoot—NRA will send you a list of its affiliated clubs with ranges in your area.

A list of membership benefits is printed on the right. Further information on these services is in the booklet "Your NRA," included with your membership credentials.

Tell your sportsmen friends (who are not already NRA members) about the many valuable services your Association makes available to gun owners. Invite them to join so that they can enjoy these same benefits.

If you are not already a member, by all means apply now for membership. Just fill out and return the application provided below.

USE THIS APPLICATION TO BEGIN OR RENEW YOUR MEMBERSHIP
—OR TO INVITE A FRIEND TO JOIN

NRA MEMBERSHIP APPLICATION

I subscribe to the PLEDGE, wish to be enrolled as an NRA member, and receive a subscription to the AMERICAN RIFLEMAN, for the term checked:

3 years (plus free gold-filled member's button) \$12.50

2 years \$9.00

1 year \$5.00

Name..... Age.....

Address

City..... Zone..... State.....

This is a RENEWAL of my membership expiring

This is a NEW membership Payment Enclosed Bill Me

Nominated by

060-05

Pledge—I certify that I am a citizen of the United States; that I am not a member of any organization which has as any part of its program the attempt to overthrow the government of the United States by force or violence; that I have never been convicted of a crime of violence and that if admitted to membership I will fulfill the obligations of good sportsmanship and good citizenship.

Signature

**NATIONAL RIFLE
ASSOCIATION**

1600 R. I. AVE., N.W. WASHINGTON 6, D. C.

ENJOY THESE BENEFITS AS AN NRA MEMBER

- Read authentic, interesting articles on guns and shooting each month in *The American Rifleman*.
- Obtain prompt, practical facts on modern and antique guns through the NRA Firearms Information Service.
- Buy rifles and equipment at cost-to-government prices.
- Win rifle or pistol shooting awards on your home range or qualify for the new NRA hunting awards.
- Shoot in the NRA rifle or pistol program of your choice—formal or informal—for beginners and veterans. NRA will send a list of clubs with ranges in your area.
- Become certified as a Rifle, Pistol or Hunter Safety Instructor.
- Attend the NRA annual meetings, exhibits, and banquet. Shoot in the National Rifle and Pistol Matches.
- Select the best in gun books through the NRA Book Service, postpaid and guaranteed.
- Receive NRA car emblem decal with your membership and be eligible to wear other distinctive insignia.

In addition, enjoy the satisfaction of supporting these public service projects:

- The continuing fight against unwise, restrictive firearms legislation.
- Reduction of hunting accidents through the NRA Hunter Safety Program.
- Increasing range facilities for marksmanship training and recreational shooting.
- National preparedness through marksmanship training.



The Future Of Firearms In America

THE ownership and lawful use of firearms by individual citizens has become, over the years, one of the historic traditions of the United States of America. It represents a freedom won by our forefathers which is enjoyed by the people of few other nations. It is an essential part of our priceless heritage which must be cherished and encouraged if it is to be maintained.

Unfortunately for America, more and more efforts are being made to deny reputable citizens the right to keep and bear arms. To a greater extent than ever before, uninformed or biased sources are blaming firearms rather than people for crimes, suicides, and accidental shootings. An ever-increasing number of excuses is being devised to produce anti-gun laws. This attitude tends to gain momentum as our population multiplies, as urbanization continues, and as much of our society loses sight of the basic values of individual rights. Those of us who believe in human dignity and freedom of the individual must join forces now and plan for the future.

Our most important task is to create in America a public opinion which is favorable to guns and shooting. The freedoms and liberties provided by the American way of life impose upon its citizens specific responsibilities. If they are to discharge their responsibilities it is obvious that they must be informed. The most constructive guide for public opinion relative to firearms information is based on true facts and not on emotional reactions. Gun owners must be firm but realistic in their opposition to proposed anti-gun laws and to those persons who disagree with their convictions. They must individually and as a part of organized groups participate in the process of public decision to see that their rights and interests are protected.

Another major responsibility lies in the field of firearms education. In the early days of America, it was necessary and accepted that everyone be intimately acquainted with firearms. People learned to use and appreciate them as tools of everyday life. The knowledge to handle them properly and the skill to use them efficiently were a part of everyone's upbringing. This is not true today. The future of firearms in America depends to a large degree upon the willingness of gun owners to establish and promote educa-

tional programs for the use of firearms in the home, on the range, and in the field.

Firearms continue to be constructive tools which may be used to build healthy minds and bodies; to develop self-discipline, initiative, and team spirit; and to mold better sportsmen and better citizens. Hunting and shooting are wholesome forms of recreation which may, in safety, be enjoyed for a lifetime. Those who prize the ownership and use of firearms—whether or not they be collectors, competitive shooters, or hunters—must join together to create more facilities and opportunities for people to shoot, and to promote more activities which are attractive, enjoyable, and beneficial to the greatest number of people.

The National Rifle Association of America is the outstanding organization of gun owners in the world. It is dedicated to firearms safety as a public service, marksmanship training for national defense, and shooting as a wholesome form of recreation. It believes in the fundamental right of an individual to keep and bear arms, and stands squarely behind the premise that the lawful ownership of fire-

arms must not be denied American citizens of good repute so long as they continue to use them for lawful purposes. No other organization conducts such a comprehensive program relative to firearms information, firearms education, and firearms activities.

Organized in 1871, the National Rifle Association of America has adopted an *NRA Centennial Plan* in anticipation of its one hundredth anniversary. Consisting of 333,000 individual members and 9000 affiliated membership organizations, the NRA proposes to increase its membership to 500,000 in order to better accomplish its objectives. Every reputable person who owns a gun or shoots a gun should join the NRA and help it to reach its goal in 1971 in order to better assure the future of firearms in America.

NRA CENTENNIAL PLAN

1. Increase NRA membership to our established goal of 500,000.
2. Create a more favorable public opinion for guns and shooting.
3. Develop more facilities for people to shoot.
4. Enlarge and improve our official journal—"The American Rifleman".
5. Promote present NRA activities which have greatest potential growth.
6. Establish new activities which will attract new supporters.
7. Strengthen our relationships with organizations which will carry our program to the people.
8. Expand U. S. prestige in international shooting.

EXECUTIVE DIRECTOR
NATIONAL RIFLE ASSOCIATION OF AMERICA

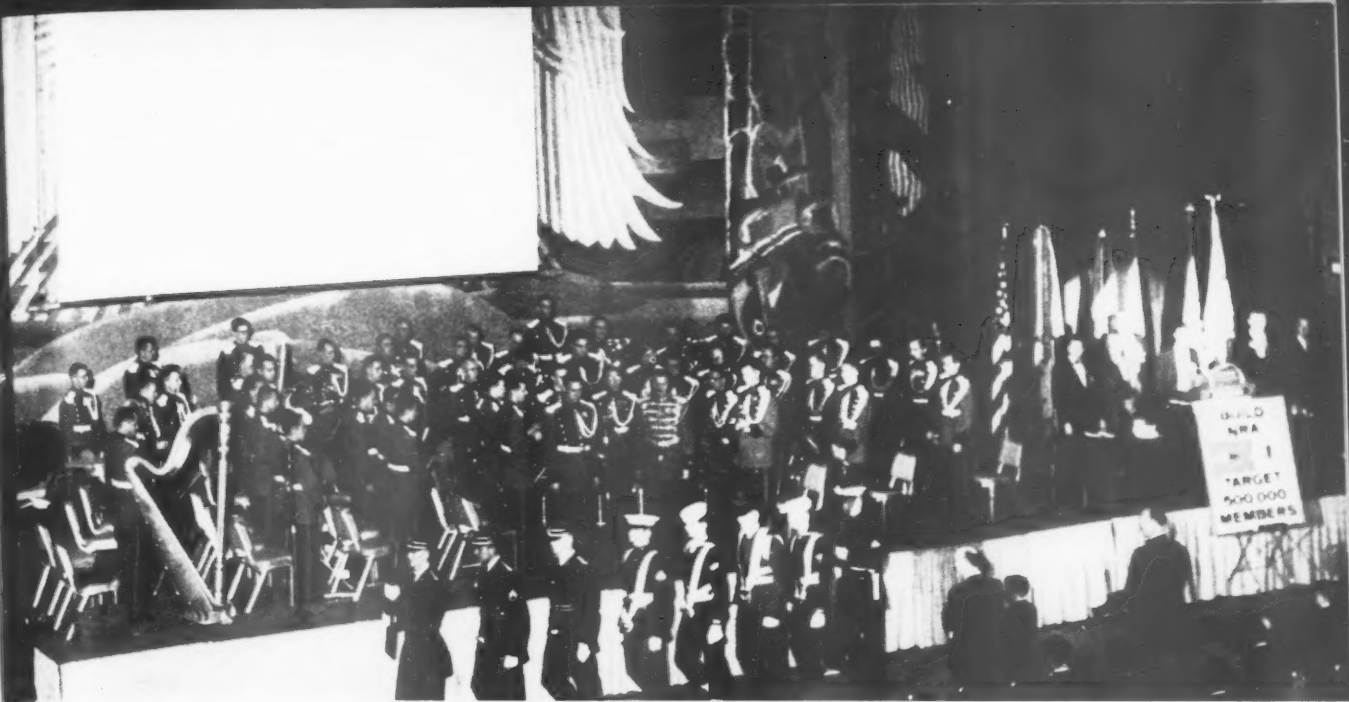
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The Opening General Session of the 89th NRA Annual Meetings & Exhibit featured a presentation of the Colors and a concert by the U. S. Marine Band, in addition to the reports of the Officers

TH ANNUAL MEETINGS & EXHIBIT

MAR. 19-26, 1960 WASHINGTON, D. C.

THE National Rifle Association of America held its 89th Annual Meetings & Exhibit on Mar. 19-26, 1960, at the Sheraton-Park Hotel in Washington, D. C. A total of 3819 members from 46 states, the District of Columbia, and 5 foreign nations were officially registered at the Meetings. More than 10,000 persons—members and non-members—visited the Exhibit.

In recent years these official meetings have been augmented with open meetings dealing with major NRA programs. Several guest speakers with experience in the activities under consideration address the open meetings. At the conclusion of the talks, the audience is divided into several small discussion groups, each with a discussion leader and a recorder. The suggestions and recommendations that come out of the discussion groups form the basis for improving and expanding the programs of the NRA.

It has been the practice since 1948 to hold at these Meetings an Exhibit of arms, ammunition, and related items. Manufacturers, dealers, NRA-affiliated gun collector organizations, branches of the Armed Services, and allied organizations are represented in these displays.

A report of the activities and events at the 89th Annual Meetings & Exhibit appears on this and the following pages. The scope and variety of the activities at the Meetings become immediately apparent, showing there is something for each and every member.



89th NRA ANNUAL MEETINGS & EXHIBIT

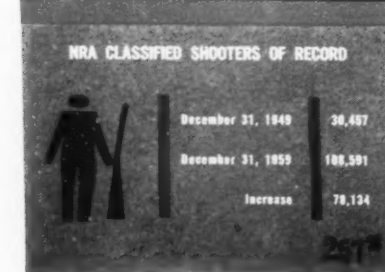
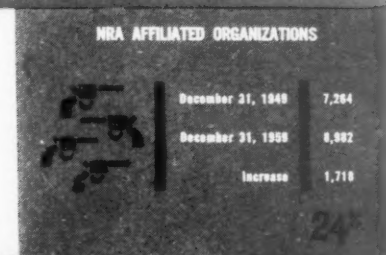
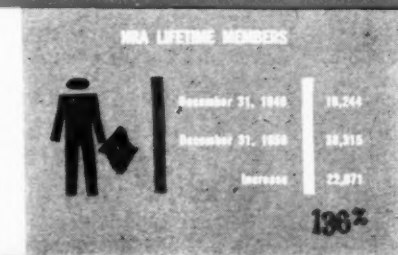
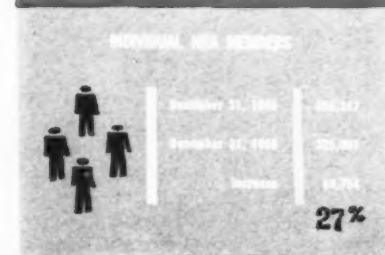
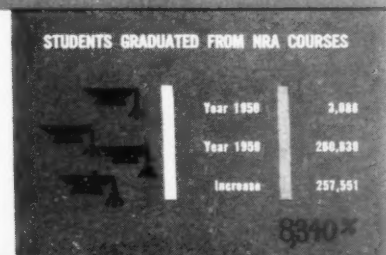
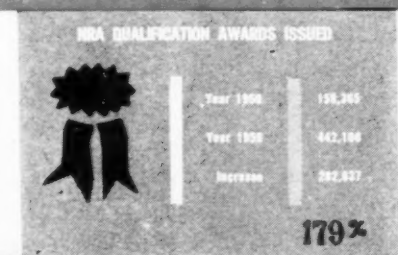
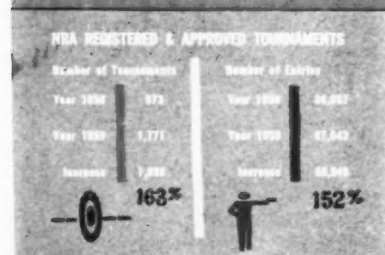
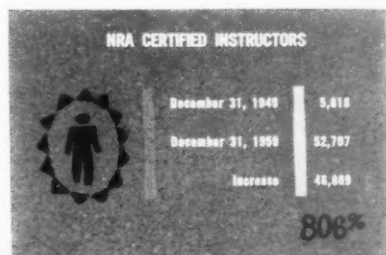
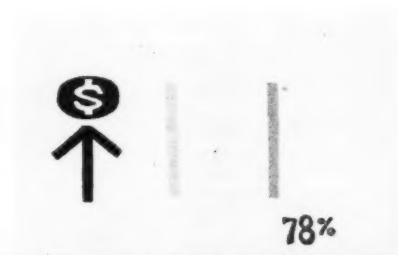
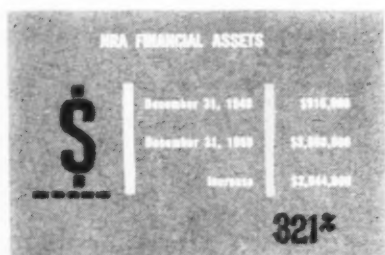
THE PAST TEN YEARS

THE decade 1950-59 was clearly the period of greatest accomplishments in the National Rifle Association's 9 decades of existence. On Mar. 19, 1960, at the Annual Members Meeting, Executive Director Louis F. Lucas narrated a color-slide presentation detailing the growth and expansion of the Association's activities in the 1950's. Reproduced on this page are some of those slides.

After noting the progress of the Association over the past 10 years, Mr. Lucas then projected the growth for the next 10 years on the basis of identical growth as in the past decade. He concluded, "Opportunities for continued growth in membership, activities, and prestige are excellent. We now are on the threshold of a new era. Let us make the most of our opportunities."



NRA Executive Director Louis F. Lucas



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NRA Secretary Frank C. Daniel was Moderator of all General Sessions

GENERAL SESSIONS

THREE full days of the 89th Annual Meetings were given over to talks and discussions of NRA activities at the General Sessions, moderated by NRA Secretary Frank C. Daniel. The programs at these sessions are given below. The Gun Collectors Meeting was followed by a question-and-answer period. The other 4 sessions were followed by discussion periods. The ideas and comments expressed in the discussions were summarized by the recorder and later reported back to the entire audience at the last General Session, on "Build NRA—In 1960".



RIFLEMAN Editor Walter J. Howe (at microphone) introduces RIFLEMAN Contributing Editors at the Dope Bag Forum. They are (l.-r.) B. R. Lewis, Herschel C. Logan, Frank de Haas, Harold E. MacFarland, Bert Popowski, and Clyde Ormond



Speakers on Firearms Legislation included Congressman Cecil R. King (D), 17th District, California, (speaking) and Robert C. Crane, New Jersey State Senator



Mark Aziz of Metuchen, N. J., speaks from the floor at the Gun Collectors Meeting. These General Sessions provided an opportunity for all members to be heard

GUN COLLECTORS MEETING

Sunday, Mar. 20, 9:30 A.M.

"NRA Activities"—Walter J. Howe, Editor, THE AMERICAN RIFLEMAN, and Secretary, NRA Gun Collector Committee

"Growth of Gun Collecting"—Gerald Fox, President, American Society of Arms Collectors

"Problems of Gun Collectors"—James E. Serven, Author, *Colt Firearms*

"Gun Collector Organizations"—Harold L. Peterson, Author, *Firearms in Colonial America*

Question and Answer Period

BUILD NRA—FIREARMS LEGISLATION

Sunday, Mar. 20, 2:00 P.M.

"NRA Activities"—Jack J. Basil, Director, NRA Legislative Service

"Firearms Bills in Congress"—Cecil R. King, Congressman (D), 17th District, California

"Firearms Legislation at State Level"—Robert C. Crane, Member, New Jersey Senate

"Sportsmen's Organizations and Anti-Gun Legislation"—E. F. Sloan, NRA Western Field Representative

Discussion Groups

BUILD NRA—FIREARMS EDUCATION

Monday, Mar. 21, 9:30 A.M.

"NRA Activities"—Stanley A. Mate, Director, NRA Training Section

"Schools and Colleges"—Julian Smith, Outdoor Education Project, University of Michigan

"Fish and Game Departments"—Merton J. Golden, Executive Director, Pennsylvania Game Commission

"Community Volunteers"—Ken Silver, Chairman, Safety Afield and Afloat Committee, Michigan United Conservation Clubs

Discussion Groups

BUILD NRA—ORGANIZED SHOOTING

Monday, Mar. 21, 2:00 P.M.

"NRA Activities"—Frank L. Wyman, Director, NRA Program Division

"Industrial Recreation"—Don Neer, Executive Director, National Industrial Recreation Association

"Municipal Recreation"—George Crumbley, Assistant Director, Parks and Recreation, Fayetteville, N.C.

"Commercial Recreation"—Val Cleaver, President, Gunners Club

Discussion Groups

BUILD NRA—HUNTING AND GAME CONSERVATION

Tuesday, Mar. 22, 9:30 A.M.

"NRA Activities"—C. Richard Rogers, Director, NRA Special Service Division

"The Future of Hunting"—Ira N. Gabrielson, President, Wildlife Management Institute

"NRA and State Game Agencies"—Seth Gordon, Vice President, North American Wildlife Foundation

"NRA and American Hunters"—Charles Mattison, President, Conservation Education Association

Discussion Groups

BUILD NRA—IN 1960

Tuesday, Mar. 22, 2:00 P.M.

"NRA Activities"—J. H. Fauntleroy, Director, NRA Membership Division

"Build NRA Campaign"—Fred M. Hakenjos, Chairman, Build NRA Committee

Discussion Reports

Firearms Legislation

Firearms Education

Organized Shooting

Hunting and Game Conservation

"The Soaring Sixties"—Louis F. Lucas, NRA Executive Director



**89th NRA
ANNUAL
MEETINGS
& EXHIBIT**

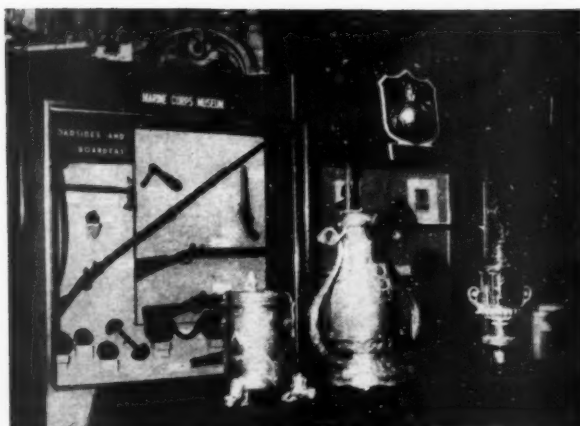
EXHIBIT HALL

IN the Exhibit Hall at the 89th Annual Meetings were displays of 65 commercial manufacturers and dealers of arms, ammunition, and related items ranging from shooting trophies to gunstock blanks; 13 NRA-affiliated gun collector organizations; the 5 military services; the National Skeet Shooting Association, the Director of Civilian Marksmanship, and the NRA Dope Bag Booth. The number of major arms manufacturers who exhibited was larger than any previous year. (A list of all exhibitors and the products displayed appears on page 25.)

The Exhibit Hall was open from 1 to 5:30 and 7:30 to 10:30 P.M. for 4 days and from 11 A.M. to 5:30 P.M. on the fifth. Well over 10,000 persons visited the Hall to see and examine a fascinating grouping of arms and related equipment.

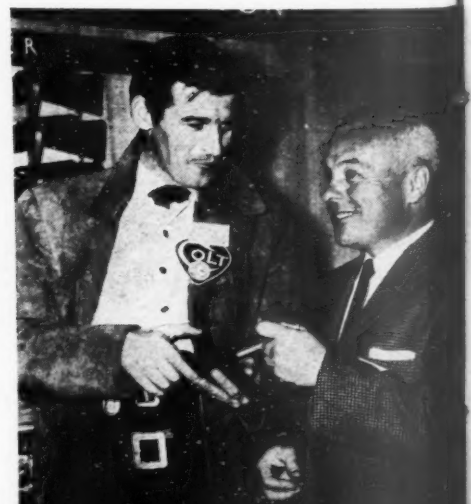
Dealers in antique guns and parts were also to be found among the modern manufacturers. One, Theodore P. Cole (r.), whose line is antique firearms, parts, knives, and accessories, discusses a long gun with R. L. Darneal of Mt. Airy, Md.

Arthur E. Cook (l.) of the Arthur Cook Supply Corp., wholesale distributor of arms, handloading equipment, and competitive shooters' supplies, shows some of the tournament awards and official targets which he markets



The U. S. Marine Corps displayed weapons of close combat from the War of 1812 and other arms and equipment used by the Corps in earlier days. The 3 cups in foreground are historical NRA trophies won by Marine shooters at the 1959 National Matches and being held by them until this year's Matches

Peter Breck, star of the TV show "Black Saddle", discusses a Colt Single Action revolver with a representative at the Colt Patent Fire Arms Mfg. Co. Booth, where the line of Colt rifles and handguns was shown





In addition to revolvers and automatic pistols, Smith & Wesson featured a factory engraver, Russell Smith, at work. He explained the way he went about engraving an arm and answered questions of onlookers



An Exhibit Hall visitor 'tries out' a binocular at the Bushnell Optical Corp. exhibit. The opportunity to examine products at firsthand was the fascinating aspect of the exhibits. As he grasped at the sliding mass of brochures beneath his arm, one person commented, "I came down for 4 hours and I could spend 4 days"



Standing before the U. S. and Confederate flags in the North-South Skirmish Association exhibit, 2 members of affiliated units look over a rifle-musket of the type used in their colorful competitions



Fred Davis, Jr., of the Davis Gun Shop, holds an Armalite Model AR-7 Explorer .22 rimfire semi-automatic rifle that was on display in his booth. The Exhibit Hall is always a good place to see new items



Richard Bucheimer (l.) of J. W. Bucheimer Co. shows a holster and belt from the line of leather goods for shooters which the firm manufactures



Vernon Harriss (l.), President of the English firm of John Rigby & Co. (Gunmakers), Ltd., of London, watches as a visitor examines an over-under shotgun from the group of fine Rigby arms on display



Dr. Lester Luntz of Hartford, Conn., was intrigued by the Gatling gun in the center of the New Jersey Arms Collectors Association exhibit

Special Events

IN addition to business meetings and general sessions, the 89th Annual Meetings included a number of special events—movies on Alaskan and African hunting, luncheons, open house at NRA Headquarters Building, and an all-day trip to the U. S. Army Engineer Center at Ft. Belvoir, Va. For the ladies there were a luncheon and flower show, a tour of historical homes, and a coffee hour.

On this page are shown some of these activities.



Berry B. Brooks narrated movies made during 8 months and 18,000 miles of travel in Africa. The 2-hour show included daring closeups of dangerous big game



Roy Weatherby concluded the opening general session with an unusual film of polar bear hunting in the Arctic, in which a light plane is used and possible rapid weather changes provide an added hazard



Gerald Fox, President of the American Society of Arms Collectors. The Society has for 2 years held its meeting, exhibit, and banquet concurrently with NRA Annual Meetings



An open house enabled visiting members to see NRA Headquarters. Dr. Quentin T. Brooks of Houston, Tex., a U. S. pistol competitor at the 1948 Olympics, shows his youngster through the Museum



NRA members on the all-day outing to the Army Engineer Center at Ft. Belvoir, Va., examined aircraft used by the Army, saw demonstrations of heavy earth-moving equipment, and inspected pontoon and fixed bridges put up by the Engineers

(l.-r.) John S. du Mont of Massachusetts, Harry C. Knode of Texas, Herman P. Dean of West Virginia, and James R. Somers of Texas pose with a fine rifle



The Ohio Gun Collectors Association was awarded the Gun Collectors Trophy for the outstanding collector display. William M. Locke (l.) and Ohio President P. L. Shumaker are shown with the trophy



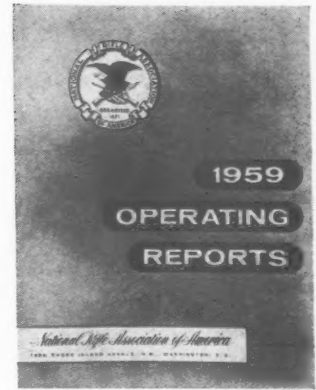
Savage Arms Corp. President Joseph V. Falcon (r.) presented the millionth Savage Model 99 to the NRA at the Savage Corp.'s luncheon. The rifle was accepted by NRA President Irvine C. Porter



OPERATIONS IN 1959

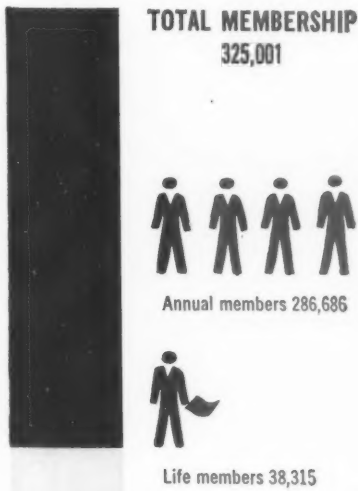
EACH year copies of the current NRA Operating Reports are made available at the Annual Meetings. The 28-page Operating Reports show in great detail the extent of the NRA's operations. In addition, the Operating Reports carry the annual messages of the Executive Vice President and the Executive Director.

On this and the 2 following pages are highlighted in abbreviated form some of the matters of most general interest that appear in the 1959 Operating Reports. (Unless otherwise noted, all figures are of Dec. 31, 1959.)



MEMBERSHIP

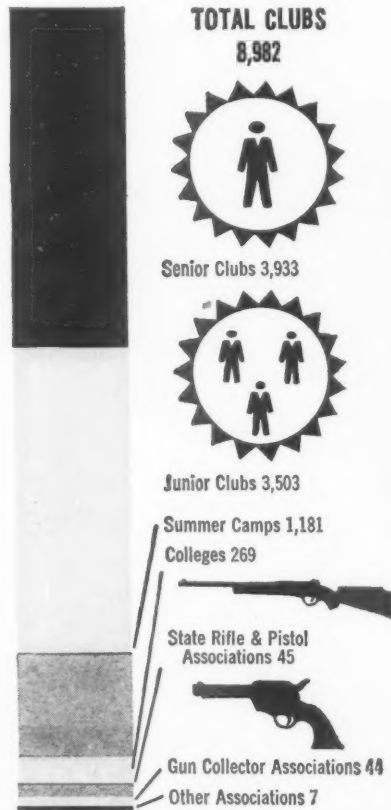
PRIOR to World War II, there were approximately 50,000 members. Immediately following the war, membership grew rapidly until in 1947 it reached a quarter of a million. It fluctuated around that figure until 1957 when, for the first time, the number of individuals exceeded 300,000.



During 1959, over one million new-member mailings and three-quarters of a million renewal notices were mailed to NRA members. More than a half-million bind-in membership applications and 12 new-member advertisements were contained in the 12 issues of *THE AMERICAN RIFLEMAN*. We also placed advertisements in outdoor magazines and solicited memberships through sporting goods dealers who sell the magazine in their stores.

CLUBS

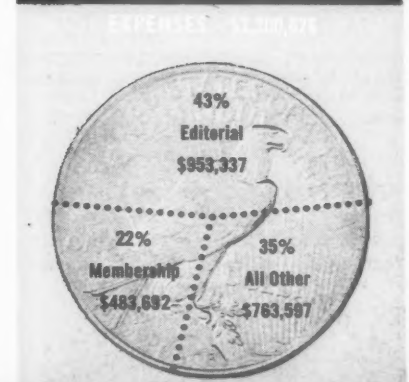
THE number of organized groups affiliated with NRA has grown steadily over the years. In 1926 we had approximately 1300 clubs. Prior to World War II this figure had grown to about 4000, with a total today of almost 9000 in the following categories:



FINANCES

As the membership in the National Rifle Association has grown over the years, its financial picture has become brighter. More membership dues have provided more funds; more funds have permitted expanded and diversified activities, and these activities, in turn, have attracted more members. With careful planning and supervision by our leadership, the financial position of NRA is stronger today than at any time in its history.

Income and expenses for 1959 are shown below.



OPERATIONS IN 1959 CONTINUED

THE AMERICAN RIFLEMAN

A TOTAL of 4,332,600 copies of the magazine were printed in 1959 as compared to 4,308,000 in 1958, and 3,917,000 in 1957. The number of pages in the 12 issues devoted to each subject-category is:

Category	Pages
Articles	
Shooting	101
Hunting	75
Gunsmithing and Ranges	41
Ammunition and Reloading	66
Antique Arms and Collections	45
Rifles—Description and Performance	37
Firearms Legislation	26
NRA Official Matters	44
Handguns—Description and Performance	45
Gun Knowledge	23
Junior Training	9
Editorial	11
Sighting and Observation	12
Shotguns—Description and Performance	8
Biographical and Personality	19
Other Subjects	24
Other	
Front Covers	12
Ricochets	8
Contents Page	12
Spotting Scope	2
Membership and Building Fund Items	52
Book Reviews	8
Index	2
Miscellaneous	14
TOTAL	696
Paid Advertising	632
TOTAL PAGES	1,328

Safety Education and Marksmanship Training

DURING 1959, the development of instruction aids was continued. The Association's first film strip devoted to safety instruction, "The Gun", was introduced. "Basic Pistol Marksmanship", an instruction manual for new pistol shooters, and the accompanying Instructor's Guide, also were produced. New pistol instruction charts made their appearance as a supplement to the material for pistol instruction.

Annual renewal of all instructor ratings is required in order that our records will show only those actively engaged in the program. The number of NRA Certified Instructors recorded in each category is:

	New 1959	Total 12/31/59
Hunter Safety	9,370	37,123
Rifle Marksmanship	2,401	10,898
Pistol Marksmanship	1,006	4,686
TOTAL	12,777	52,707

HUNTER SAFETY

Twenty-five states and one Canadian province now operate firearm safety training programs. These intensified programs have begun to make them-

selves felt in firearm accident statistics. The National Safety Council shows a decrease of 7% in firearms accidents during the period 1950-1959. There is no question that widespread training with the NRA Hunter Safety Course and attendant publicity have had an influence on this decline. Fourteen states and one Canadian province have legislation, in one form or another, on hunter safety training. Eleven additional states have official programs by administrative action.

The number of students completing the course grows larger each year—128,485 in 1957, 237,314 in 1958, and 248,001 in 1959—with a total of 824,806 graduates at the end of 1959.

BASIC MARKSMANSHIP

Marksmanship training was the primary reason for the organization of the National Rifle Association in 1871. Forty-six instructors and clubs earned NRA Training Awards during 1959. A total of 101,790 individuals, mostly Juniors, have completed the course. The extent of participation in Basic Training Courses is shown below:

Registered Courses Conducted

Rifle	419
Pistol	64
TOTAL	483

Students Graduated

Rifle	11,816
Pistol	822
TOTAL	12,638

QUALIFICATION

The program has been especially popular in camps and Junior clubs since its introduction in 1926, and now is gaining popularity with adults. Since that time, according to our records, 4,405,275 qualification awards of all types have been issued to Junior and Senior shooters. The number and type of awards issued in 1959 are:

Junior Qualifications

50 ft.	403,414
25 ft.	2,135
15 ft.	18,597
TOTAL	424,146
Senior Qualifications	10,091
American Rifleman	2,917
Light Rifle Qualifications	1,799
.22 Shotgun Qualifications	3,155
GRAND TOTAL	442,108

Tournaments and Shooters

EVERYTHING possible is done to keep shooting up-to-date and to offer NRA members a complete, interesting, and progressive program. As new features are developed, they are included in the tremendous scope of our Association's activities. Competition's favor-

able appeal is demonstrated by the continued increase in participation as indicated by the comparative statistics shown below.

TOURNAMENTS

During 1959 more tournaments were conducted and the number of shooters firing was greater than ever before. There was an increase over 1958 of 186 tournaments and 12,802 competitors. Participation was as follows:

Number of Tournaments

High Power Rifle	222
Smallbore Rifle	695
Pistol	854
TOTAL	1,771

Number of Entries

High Power Rifle	19,199
Smallbore Rifle	31,500
Pistol	46,944
TOTAL	97,643

Average Attendance

High Power Rifle	86
Smallbore Rifle	45
Pistol	55

LEAGUES

Activity in 1959 was as follows:

	Number of Leagues-Teams	Total Average Participants
Winter Leagues		
Light Rifle	7- 32	—
Smallbore Rifle	184-1,270	9,122-50
Pistol	93- 686	4,796-52
TOTAL	284-1,988	13,908-49
Summer Leagues		
High Power Rifle	17- 119	677-40
Smallbore Rifle	35- 171	1,309-37
Pistol	37- 159	990-27
TOTAL	89- 449	2,976-33
GRAND TOTAL	373-2,437	16,884-45

CLASSIFICATION

Maintaining classification records and issuing cards to competitors is typical of the services provided by NRA to its members. It is a significant element of the competitive shooting program which is not included in most sports. Classifications of record at the end of 1959 were:

Classification of Record

Active Masters	6,141
Lifetime Masters	3,899
Inactive Masters	2,081
Experts	16,597
Sharpshooters	16,223
Marksmen	20,868
TOTAL	65,809
Temporary	42,782
GRAND TOTAL	108,591

Classification by Type

High Power Rifle	14,210
Smallbore Rifle	
Outdoor Prone	12,266
Outdoor Position	5,339
Indoor	39,549
TOTAL	57,154
Pistol	
Outdoor	22,596
Indoor	14,631
TOTAL	37,227
GRAND TOTAL	108,591

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Public Relations

PREPARED news releases were sent to hometown newspapers covering such continuing NRA activities as the chartering of new clubs; appointment of individuals as training counselors, official referees, and certified instructors; and the issuance of qualification awards to Distinguished and Expert junior riflemen.

Special news releases were made for such major events as the NRA Annual Meetings, the National Matches and Small Arms Firing Schools, the Pan American Games, the National Junior Championships, the NRA Indoor Championships, the NRA-BSA (Boy Scouts of America) Postal Match, and the NRA-NIRA (National Industrial Recreation Association) Postal Match.

Firearms Legislation

INFORMATION to NRA members about firearms control proposals is supplied by 3 principal means—(1) the regular report, "What the Lawmakers are Doing", in *THE AMERICAN RIFLEMAN*; (2) NRA Legislative Bulletins; and (3) direct correspondence. During the year, 27 columns were published in the magazine and 32 legislative bulletins were mailed to 157,000 members in 25 states and Puerto Rico.

Hunting Awards

THE NRA Hunter Safety Award, which is presented to the fish and game department of the state or Canadian province which has made the greatest contribution toward the cause of hunter safety during the previous year, went to the State of New York. Honorable mention certificates were issued to Colorado, Minnesota, Montana, Ohio, Oregon, and the Province of Ontario.

The NRA Silver Bullet Trophy—one for the NRA member bagging the finest trophy head of a whitetail deer and another for a mule deer—were presented for the first time during 1959.

During 1959, the NRA Deer Hunter Award was issued to 155 members who bagged a mule or blacktail deer with antlers having 4 or more points to one side (Western Count) or an antelope with 14" horns.

With the participation of Hawaii and Kentucky, a total of 38 states and 2 Canadian provinces now contribute data used in the Hunter Casualty Report. Early in 1959 a booklet covering the combined information on accidents reported for 1956 was published and distributed. A digest of similar information covering accidents of 1957 and 1958 was published in the November issue of *THE AMERICAN RIFLEMAN*.

THE CENTENNIAL PLAN



On Nov. 1, 1959, Franklin L. Orth assumed the duties of Executive Vice President of NRA. As the senior paid executive of the Association he is responsible for conducting the affairs of the NRA in accordance with the programs and policies established by the Board of Directors and the Executive Committee. On Mar. 23, 1960, Mr. Orth delivered his report to the Board and the Executive Committee. Below are excerpts from this report setting forth the general objectives of the NRA for the next decade. At the meeting of the Executive Committee on Mar. 25, The Centennial Plan outlined below was adopted.

THE Operating Reports for 1959 are a testimony to a job well done. However, I am keenly aware of the more important current problems and no one will be resting on his oars until we have satisfactory solutions to offer you.

This year of 1960 marks the beginning of a new decade. I believe that at the beginning of this new decade it would be wise to take stock and to prepare to the extent of our limited vision for what may lie ahead.

I wish to suggest to you that we should all work together to produce *The Centennial Plan* which would set up goals of achievement for the National Rifle Association. It is my purpose to urge on you the necessity of formulating some guidelines and bench marks to shoot at even though they should prove later to be unattainable. Certainly we are in a fast moving and changing world. How good are we going to be in getting and keeping young America interested in rifle and pistol marksmanship as a sport? Is it going to be within his reach financially? Are we going to have the type and kinds of ranges easily accessible in the urban areas which will house our expanding population? We cannot afford to die on the vine because we have not prepared for what is coming.

There are many essential and worthwhile goals which we, working together, can set up in anticipation of our 100th Anniversary in 1971. I suggest the following as some which deserve our enthusiastic attention:

1. Increase NRA membership to our established goal of 500,000.
2. Create a more favorable public opinion for guns and shooting.
3. Develop more facilities for people to shoot.
4. Enlarge and improve our official journal—*THE AMERICAN RIFLEMAN*.
5. Promote present NRA activities which have greatest potential growth.
6. Establish new activities which will attract new supporters.
7. Strengthen our relationships with organizations which will carry our program to the people.
8. Expand U.S. prestige in International shooting.

I could give a great deal more in the way of specifics but suffice it to say that we will be forced to consider some very broad policy decisions in the next year if you view with favor *The Centennial Plan*.

I am delighted to be associated with NRA and am looking forward to our future with enthusiasm and confidence.



(at left) Gen. Lyman L. Lemnitzer accepts from NRA President Irvine C. Porter the Traditional Flintlock Rifle presented to the Guest Speaker at the NRA Annual Banquet. (above) Gen. Lemnitzer presents an M14 to the NRA Firearms Museum

The Rifleman and Modern War

GEN. Lyman L. Lemnitzer, U. S. Army Chief of Staff, was Guest Speaker at the 89th NRA Annual Banquet. He delivered an address on "The Rifleman and Modern War" in which he showed that, even with the development of startlingly destructive means of warfare, the man with the rifle remains a vital factor in our Armed Forces. The following is a digest of the address.

IT is a real pleasure for me to be here with you tonight. Naturally, it is very enjoyable to join with so many other shooting enthusiasts. What makes this a special privilege, however, is the opportunity it provides me to meet a group of people who, through this Association, have made such a tremendous contribution to marksmanship training and competition.

This contribution is important for a number of reasons. One of these, of course, is that it has promoted a wholesome, worthwhile, and rewarding sport. Another reason is to be found in the military value of the improved marksmanship which it helps to bring about.

Variety of capabilities

To prepare ourselves for the variety of wars in which we might engage, we are obliged to maintain a corresponding variety of capabilities within our Nation's military establishment. Each element of this establishment has a vital role to play. We have the capability provided by our nuclear strike forces, which stand ready to deliver retaliatory blows against strategic enemy targets. We have the capability provided by our forces already deployed overseas, to counter aggression in, or adjacent to, a number of key strategic areas throughout the world. These forces include Army units along the Iron and Bamboo Curtains; Tactical Air Force units to provide them with invaluable close air support; Fleet Marine Forces and carrier-based aircraft at sea; and naval forces to maintain the lines of communications from sources of supply here in the United States. We have the capability provided by our Air Force, Navy, and Army strategic reserves, which constitute the components of balanced forces available for prompt movement anywhere in the world where a crisis may develop. We have our reserve components, which enable us to mobilize rapidly to

whatever extent is required for sustained operations. Finally, we have the tremendous capabilities represented by the military force of Free nations with which we are allied.

I want to emphasize that it is the combination of these capabilities which enables us to meet the military threat across the entire spectrum of forms which it may take.

* * *

Importance of the rifle

In any type of military operations, one thing which has *not* changed is the importance of the soldier's mastery of his individual weapon—fundamentally, the rifle.

In fact, this importance has increased. I have pointed out that dispersion of units will permit infiltration. Consequently, not only infantrymen but cannoners, cooks, and clerks must be ready and able to defend themselves against sudden enemy raids. . . .

As for the infantryman himself, the rifle is still his basic weapon. We must not forget that the military purpose of war is to achieve control over land and the people who live on it. The ultimate measure of the control which has been attained is the area dominated by the infantryman with the fire of his individual weapon. In the final analysis, the success with which that domination is established, maintained, and extended depends in large part on the soldier's mastery of his rifle.

I believe that the importance of the rifle, and of its effective use, can be indicated very simply. Earlier, I mentioned the Army's new organization for the infantry division based on 5 infantry battle groups. Each of those battle groups—the basic tactical units in the division—is made up of 1356 officers and enlisted men. Of these 1176—that is, almost 86%—are armed with rifles. These, of course, in-

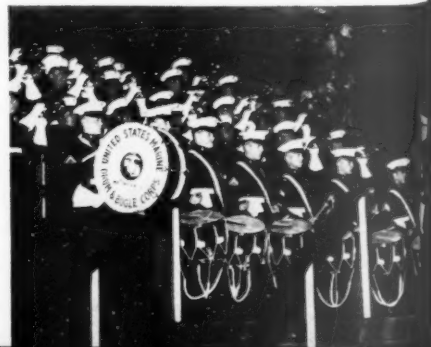
clude some men who have *primary* duties other than as riflemen. They may be assigned to one of the battle group's many crew-served weapons; they may be truck drivers; or they may perform administrative functions. Nonetheless, with their individual weapons they contribute to the battle group's fighting strength.

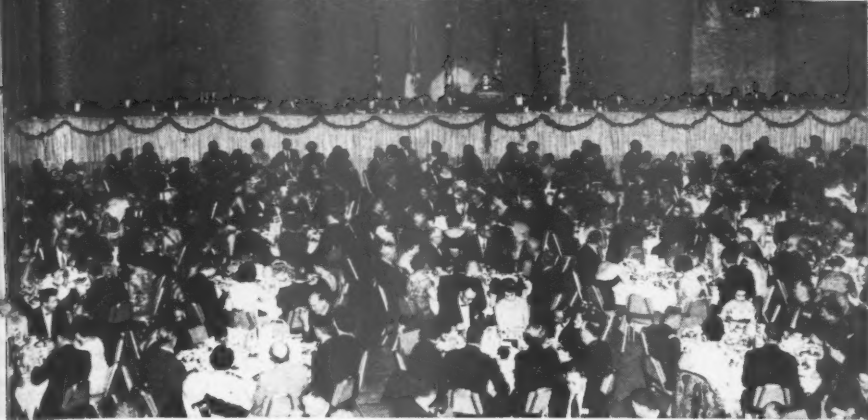
Since the rifle is such a vital element in the infantry battle group's firepower, the importance of highly developed skill in its use is obvious. It has been my experience that groundwork is a vital element in the development of good marksmanship. Sound groundwork requires qualified instruction. It also requires time. On the other hand, in case of war, time might be in very short supply.

The facts that time could be short, that skilled marksmanship is so vital to the effectiveness of ground forces in modern war, and that groundwork is important to marksmanship training all emphasize the enormous value of the contribution which the National Rifle Association is making to our Nation's military capability. In this regard, I am particularly impressed by what the NRA is accomplishing through its Junior rifle clubs. Last year, there was a total of over 4600 of these clubs. The progress being made by these youngsters in shooting is indicated by the fact that the number of qualification awards earned by their members totals over 400,000 each year. This program, furthermore, is only one aspect, out of many, of your Association's encouragement of the development of skilled, safe shooting; and of your contribution to the Nation's military capability. Truly, any realistic appraisal must rank the National Rifle Association among our vital national security assets.

In conclusion, I want to point out that the rifle has special meaning for this country. It is a part of our national heritage—indeed, the right to bear arms is guaranteed in our Constitution itself. In American hands, the rifle has symbolized the conquest of the wilderness, the march of civilization, the protection of the weak and helpless, and the preservation of freedom. It has been the final arbiter in defeating the threats, from whatever source, which have menaced the United States throughout its history. Today, the rifle—in the hands of courageous and determined men trained in accurate marksmanship—still stands as a vital element of our military strength if war should endanger us again.

Entertainment at the NRA Banquet was provided by the U. S. Marine Corps Drum and Bugle Corps (below) and the U. S. Army Chorus





The NRA Annual Banquet was the social highlight of the 89th Annual Meetings and Exhibit. There were 1010 persons in attendance at this gala affair, a distinguished gathering of persons prominent in governmental and military circles, friends of NRA in allied organizations and activities, and leaders within the NRA



Gen. Curtis E. LeMay, U. S. Air Force Vice Chief of Staff, presents the Gen. Thomas D. White Trophy to Dept. of the Army Assistant Secretary George H. Roderick. Secretary Roderick accepted the Trophy in behalf of the National Board for the Promotion of Rifle Practice. The Trophy will be placed in competition at the 1960 National Matches

EXHIBITORS

THE Exhibit Hall this year featured 86 exhibitors—65 commercial, 13 gun collector associations, and 8 educational. Following is a listing of the exhibitors and the products and services demonstrated.

COMMERCIAL

Ed Agramonte, Yonkers, N. Y.—Antique and modern firearms
Bausch & Lomb Optical Co., Rochester, N. Y.—Binoculars, telescopes, and shooting glasses
V. H. Blackinton & Co., Attleboro Falls, Mass.—Medals and trophies
Bob Brownell's, Montezuma, Iowa—Firearms, handloading tools, and gunsmithing supplies
Browning Arms Co., St. Louis, Mo.—Handguns, rifles, and shotguns
J. M. Bucheimer Co., Frederick, Md.—Leather goods—holsters, belts, etc.
Bushnell Optical Corp., Pasadena, Calif.—Binoculars, telescopes, and optical instruments
Carpenter Insurance Service, Inc., Washington, D. C.—Insurance for gun-owners, competitors, hunters, and ranges
C H Die Co., El Monte, Calif.—Reloading equipment
Theodore P. Cole, Wilkesburg, Pa.—Antique firearms and related equipment
Colt's Patent Fire Arms Mfg. Co., Inc., Hartford, Conn.—Handguns and rifles
Arthur Cook Supply Corp., Laurel, Md.—Firearms, handloading tools, and competitive shooters' equipment
Crosman-Hahn, Fairport, N. Y.—CO₂ and air-powered handguns and rifles for BB's and pellets
Clyde Culver—Collectors Firearms, Northfield, Ohio—Antique firearms and accessories
Daisy Mfg. Co., Rogers, Ark.—BB guns—handguns and rifles
Dakin Gun Co., San Francisco, Calif.—Foreign and domestic shotguns
Davis Gun Shop, Falls Church, Va.—Antique and modern arms, shooting accessories
Dixie Gun Works, Inc., Union City, Tenn.—Antique gun supplies
D-L Products Co., Lincoln, Nebr.—Reloading tools
Evaluators Ltd., Inc., Quantico, Va.—Firearms, competitive shooting accessories

Firearms International Corp., Washington, D. C.—Imported handguns, rifles, and shotguns
Fitz, Los Angeles, Calif.—Pistol grips, plastic reloading accessories
Norm Flayderman—Antique Firearms, Greenwich, Conn.—Antique firearms and accessories
Forster-Appelt Mfg. Co., Inc., Lanark, Ill.—Reloading accessories, special tools
Freeland's Scope Stands, Inc., Rock Island, Ill.—B.S.A. rifles, shooting accessories, and scope stands
Herb Glass, Bullville, N. Y.—Antique firearms and accessories
The Gordons, Ltd., Arlington, Va.—BSF air rifles and pistols
Gould's Myrtlewood, Coquille, Oreg.—Gunstocks and blanks
Guns & Ammo Magazine, Los Angeles, Calif.
Guns Magazine, Skokie, Ill.
A. B. Harris & Associates, Gary, Ind.—Gunsmith's specialty items—bluing and stock finishing supplies
The Hartford Gun Choke Co., Inc., Simsbury, Conn.—Shotgun chokes
Gil Hebard Guns, Knoxville, Ill.—Handguns, and equipment for competitive pistol shooters
The High Standard Mfg. Corp., Hamden, Conn.—Handguns and custom grips
Hornady Mfg. Co., Grand Island, Nebr.—Jacketed rifle bullets
Jackson Arms, Dallas, Tex.—Antique firearms and accessories
Paul Jaeger, Jenkintown, Pa.—Custom rifles, rifle accessories, and imported shotguns
Jefferson Corp., North Haven, Conn.—Mfgs. of rifles, shotguns, gunstocks, and bullet traps
S. E. Laszlo—House of Imports, Brooklyn, N. Y.—British shotshells and rimfire ammunition, I.C.I. 'Eley' brand
Lehigh Chemical Co., Chestertown, Md.—'Anderol' lubricants
The Lyman Gun Sight Corp., Middlefield, Conn.—Gunsights, reloading equipment
Marble Arms Corp., Gladstone, Mich.—Rifle sights, gun cleaning kits, and knives
The Marlin Firearms Co., New Haven, Conn.—Rifles and shotguns
Mayville Engineering Co., Inc., Mayville, Wis.—Shotshell reloading tools
Mitchell's Shooting Glasses, Waynesville, Mo.—Shooting and driving glasses
O. F. Mossberg & Sons, Inc., New Haven, Conn.—Rifles and shotguns
The National Target Co., Inc., Washington, D. C.—Official targets for competition
Pacific Gun Sight Co., Inc., Palo Alto, Calif.—Reloading tools and accessories
The Poly-Choke Co., Inc., Hartford, Conn.—Shotgun chokes

R.C.B.S. Gun & Die Shop, Oroville, Calif.—Reloading tools and accessories
Redfield Gun Sight Co., Denver, Colo.—Metallic and telescopic sights
Remington Arms Co., Inc., Bridgeport, Conn.—Shotguns, rifles, trap and skeet equipment, ammunition
John Rigby & Co. (Gunmakers), Ltd., London, England—Custom firearms
Santa Anita Engineering Co., Pasadena, Calif.—Reloading equipment
Savage Arms Corp., Chicopee Falls, Mass.—Rifles, shotguns, single-shot pistol
Sierra Bullets, Inc., Whittier, Calif.—Jacketed rifle bullets
Simmons Gun Specialties, Inc., Kansas City, Mo.—Shotgun ventilated rib, custom shotgun work
Smith & Wesson, Inc., Springfield, Mass.—Revolvers and automatic pistols
Speer Products Co., Lewiston, Idaho—Jacketed rifle bullets, handgun bullets
Sturn, Ruger & Co., Inc., Southport, Conn.—Revolvers and automatic pistols
John Uerl Optical Co., Pittsburgh, Pa.—Telescopic sights and spotting scopes
Valley Gun Shop, Towson, Md.—Antique firearms and accessories
Weatherby's, Inc., South Gate, Calif.—Custom rifles, ammunition
Williams Gun Sight Co., Davison, Mich.—Gun sights, telescope mounts, and shooting accessories
Winchester-Western Division, Olin Mathieson Chemical Corp., New Haven, Conn.—Rifles, shotguns, trap and skeet equipment, ammunition

EDUCATIONAL

NRA Dope Bag Booth
National Skeet Association, Dallas, Tex.—Represented by The National Capital Skeet & Trap Club of Washington, D. C.
U. S. Marine Corps **U. S. Air Force**
U. S. Coast Guard **U. S. Army**
U. S. Navy **DCM**

COLLECTOR

Florida Gun Collectors Association
Fort Lee Arms Collectors
Maryland Arms Collectors Association
Massachusetts Arms Collectors
Michigan Gun Collectors Association
New Jersey Arms Collectors Club
New York State Arms Collectors Association
North-South Skirmish Association
Ohio Gun Collectors Association
Pennsylvania Antique Gun Collectors Association
Potomac Arms Collectors Association
Texas Gun Collectors Association
Virginia Arms Collectors Association



Irvine C. Porter



John M. Schooley



Franklin L. Orth



Louis F. Lucas



Frank C. Daniel

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President, Irvine C. Porter
Birmingham, Ala.
Vice President, John M. Schooley
Denver, Colo.
Executive Vice President, Franklin L. Orth
Washington, D. C.
Executive Director, Louis F. Lucas
Washington, D. C.
Secretary, Frank C. Daniel
Washington, D. C.
Treasurer, Louis F. Lucas
Washington, D. C.

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POWERS: *The Board of Directors has general charge of the affairs of the Association. It elects the officers of the Association, the members of the Executive Committee, and members to the Executive Council.*

Terms Expire in 1961

Brig. Gen. Chester R. Allen, USMC,
Arlington, Va.
Sam Bond, *New Philadelphia, Ohio*
Mrs. Alice H. Bull, *Seattle, Wash.*
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Marvin D. Driver, *Allen Park, Mich.*
Harold W. Glassen, *Lansing, Mich.*
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Irvine C. Porter, *Birmingham, Ala.*
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John M. Schooley, *Denver, Colo.*
Waldo E. Seagly, *Topeka, Ind.*
George A. Simpson, *Seal Beach, Calif.*
Clement L. Theed, *Miami, Fla.*
Franklin H. Wells, *Harrisburg, Pa.*
Charles F. Wolff, *Kenmore, N. Y.*
Merrill W. Wright, *Auburn, Mass.*

Terms Expire in 1962

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Louis A. Benton, *Middlesex, N. J.*
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Dr. Roy G. Carl, *Enid, Okla.*
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Donald M. Higgins, *New Brunswick, N. J.*
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Elvin R. Lamster, *Pierre, S. Dak.*
*Col. John K. Lee, Jr., *Washington, D. C.*
Robert M. Modisette, Jr., *Pasadena, Calif.*
Dexter F. Rhodes, *Milwaukee, Wis.*
Mrs. Gladys Rising, *Compton, Calif.*
Albert F. Roddy, *Chattanooga, Tenn.*
Frank O. SoRelle, *Jayton, Tex.*
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Glenn C. Taylor, *Phoenix, Ariz.*
Charles C. Whipple, *Somerset, Pa.*
James C. Whitney, *Reseda, Calif.*
Cecil A. Williams, *Saugus, Mass.*
Wilbur L. Währow, *Springfield, Ill.*
Henry L. Woltman, *St. Paul, Minn.*
*Elected in 1959 to fill a vacancy

Terms Expire in 1963

Col. Peter W. Agnell, USAF, *Washington, D. C.*
Paul D. Andrews, *Syracuse, N. Y.*
J. Alvin Badeaux, *Thibodaux, La.*
Harlon B. Carter, *Burlington, Vt.*
Richard S. Cross, *Lafayette Hill, Pa.*
Dr. Guy C. Davis, *Atlanta, Ga.*
Dr. Roy A. Flanders, *Pratt, Kans.*
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Leon C. Jackson, *Dallas, Tex.*
Maj. Gen. Earle M. Jones, *Sacramento, Calif.*
Congressman Cecil R. King (Calif.),
Washington, D. C.
Oscar R. Landet, *Anaconda, Mont.*
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Harold D. McMahon, *Mesa, Ariz.*
Donald E. Miller, *Wenatchee, Wash.*
Harold L. Peterson, *Arlington, Va.*
E. G. Pope, *Lubbock, Tex.*

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Maj. Gen. Milton A. Reckord, *Baltimore, Md.*
Charles Sanders, *Indianapolis, Ind.*
Julian C. Smith, *Alexandria, Va.*

EXECUTIVE COMMITTEE

POWERS: *The Executive Committee shall exercise all the powers of the Board of Directors when the Board is not in session, other than the power to amend the Bylaws.*

Harlon B. Carter
Marvin D. Driver
Karl T. Frederick
Harold W. Glassen
Joel D. Griffing
Frederick M. Hakenjos
Donald B. Hilliker
Raymond Hoem
Leon C. Jackson
Earle M. Jones
Carl E. Kastner
John K. Lee, Jr.
Robert M. Modisette, Jr.
Irvine C. Porter
Milton A. Reckord
Bartlett Rummel
John M. Schooley
Waldo E. Seagly
Julian C. Smith
Frank O. SoRelle
Clement L. Theed
Wilbur L. Withrow
Ex-Officio
Franklin L. Orth
Louis F. Lucas

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Members of the Executive Council are elected for life.

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Hilliard Comstock
Francis C. Endicott
Karl T. Frederick
Harry D. Linn
Morton C. Mumma
Nathaniel C. Nash
Francis W. Parker, Jr.
Milton A. Reckord
Julian C. Smith
Emmet O. Swanson
Littleton W. T. Waller
Fred M. Waterbury
George R. Whittington

STANDING COMMITTEES

MISSION: To conduct a continuing study relative to the rules, regulations, and programs pertaining to its particular branch of the Association's activities; to examine the effectiveness of such matters in properly regulating the activity and in promoting broader participation by members and the public at large; to evaluate and report upon suggestions from the membership at large.

High Power Rifle Committee

Harlon B. Carter, Chairman
Chester R. Allen
Sydney C. Carpenter
Charles E. Lyman, III
Armistead D. Mead
Chester R. Paulson
E. G. Pope
Dexter F. Rhodes
Glenn Taylor
James C. Whitney
Henry L. Wortman
Russell B. Waly, Secretary

Smallbore Rifle Committee

Waldo E. Seagly, Chairman
Paul D. Andrews
Sam Bond
Roy G. Carl
Roy A. Flanders
Raymond Hoem
J. Herbert Hollister
Donald E. Miller
Charles C. Whipple
Warren L. Cheek, Secretary

Pistol and Revolver Committee

Marvin D. Driver, Chairman
Peter W. Agnell
Louis A. Benton
Guy C. Davis
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John B. Layton
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Charles F. Wolff
Merrill W. Wright
George J. Kuch, Secretary

Junior and College Committee

Donald B. Hilliker, Chairman
Alice H. Bull
G. E. Damon
Donald M. Higgins
Elvin R. Lamster
Harold D. McMahon
Leonard E. Reich
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William E. Ward, III
Stanley A. Mate, Secretary

Gun Collector Committee

Frank O. SoRelle, Chairman
Herman P. Dean
John S. du Mont
Cecil R. King
Harry C. Knode
Oliver M. Knode
Harold L. Peterson
James E. Serven
P. L. Shumaker
Walter J. Howe, Secretary



ACTIONS TAKEN . . .

At the NRA Executive Committee Meeting held during the 89th Annual Meetings

THE Executive Committee of the National Rifle Association met in the Sheraton-Park Hotel on Friday and Saturday, Mar. 25 and 26, 1960. Reports were submitted by all Officers and Standing and Special Committees.

The Executive Committee adopted a recommendation of the High Power Rifle Committee that a "250 Club" be established for high power rifle competitors firing a possible score over the National Match Course in individual National Rifle Association registered competition and individual National Board Matches.

The Executive Committee adopted a recommendation by the Junior and College Committee that all existing qualification courses of the Association be consolidated into a program for use by all NRA members; and that the Staff be authorized to develop appropriate courses for all NRA programs.

The Executive Committee adopted a recommendation by the Junior and College Committee, the Smallbore Rifle Committee, and the International Shooting Committee be directed to develop an experimental modified ISU type of gallery program for the college level and above.

The Executive Committee adopted the recommendations of the Competition Rules Committee for a number of rules changes. This amendment to Rule 5.5 becomes effective immediately:

Rule 5.5 (e): National Records may not be established by the use of scores fired in special positions or with special equipment as may be authorized according to Rule 5.5.

All other rules changes become effective Jan. 1, 1961, and will be published in the June RIFLEMAN.

The Executive Committee authorized the Officers of the Association in consultation with the Smallbore Rifle Committee, to consult with members of

the Association who would be interested in sending a representative small-bore team to Europe for the purpose of having shoulder-to-shoulder competition with one or more of the European countries, on American targets and over the American courses of fire. This to be during the 1960 season and at no expense to NRA.

The Executive Committee selected Los Angeles, Calif., as the location for the 1964 Annual Meetings, provided the NRA Staff is assured of adequate facilities, reasonable costs, and sufficient local interest.

The Executive Committee approved in principle the NRA Centennial Plan as outlined and presented by the Executive Vice President, Franklin L. Orth, and authorized the Officers and Staff to expend, during the coming year, not to exceed \$50,000 for promotional research connected with the topics that are outlined in the Centennial Plan, after which there would be a report back to the Executive Committee and to the NRA Board of Directors on any further expenditure of funds or findings which the group might propose.

The goals of the Centennial Plan, set up in anticipation of our 100th Anniversary, are:

1. Increase NRA membership to our established goal of 500,000.
2. Create a more favorable public opinion for guns and shooting.
3. Develop more facilities for people to shoot.
4. Enlarge and improve our official journal—THE AMERICAN RIFLEMAN.
5. Promote present NRA activities which have greatest potential growth.
6. Establish new activities which will attract new supporters.
7. Strengthen our relationships with organizations which will carry our program to the people.
8. Expand U. S. prestige in International shooting. ■



HI-STANDARD SUPERMATIC TROPHY PISTOL

By Thomas E. Wessel

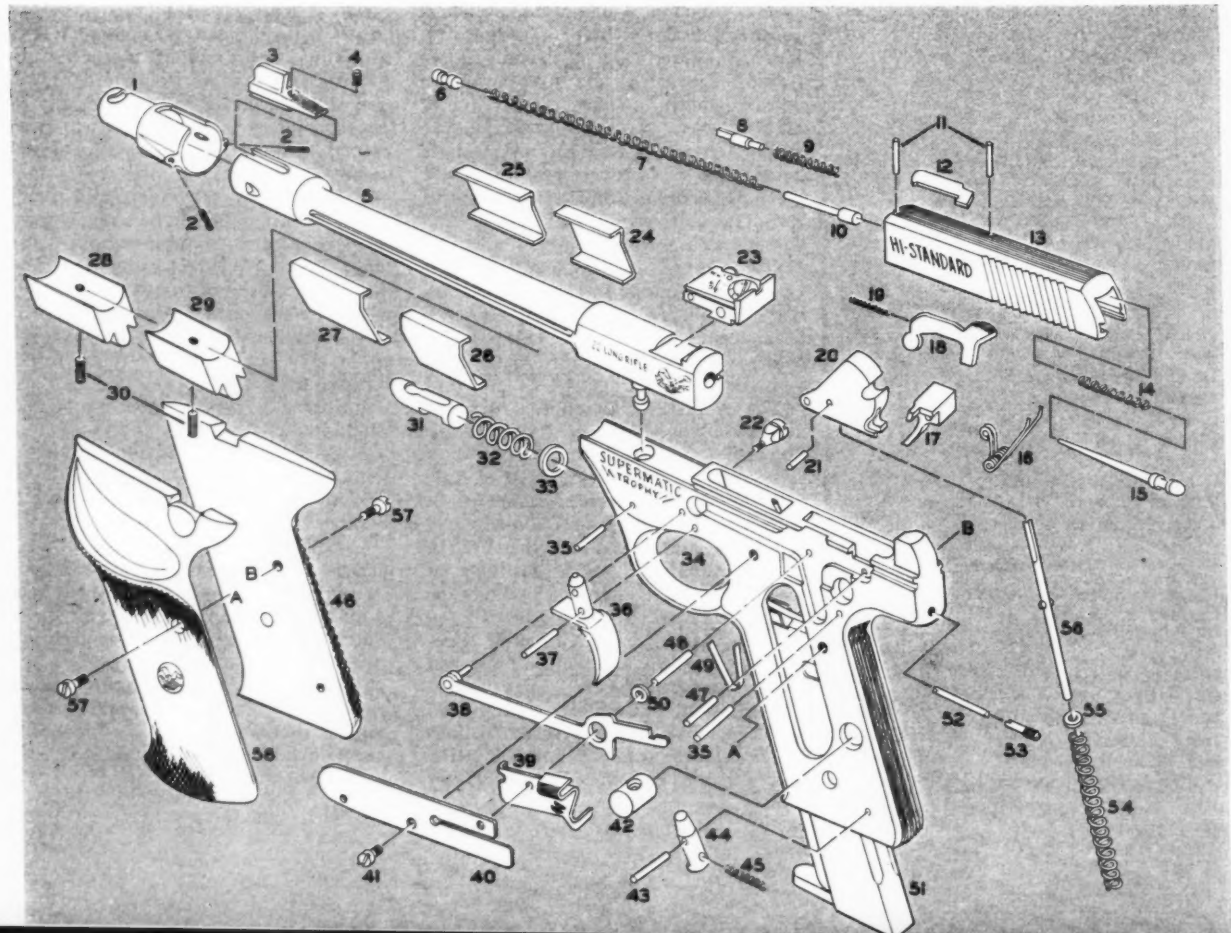
The Supermatic Trophy and Citation models are chambered for the cal. .22 long rifle cartridge and conversion units are available to permit use of the cal. .22 short cartridge. The Olympic Citation is chambered for the cal. .22 long rifle with a conversion unit. Factory installation of these conversion units is required. The Supermatic Trophy is the deluxe model featuring high-polish blue finish, checkered walnut grips, and gold-plated trigger and safety button. Lettering is gold inlaid. The other models have checkered plastic grips, and triggers and safety buttons are finished blue. Walnut grips are available at extra cost in lieu of the plastic grips.

The Supermatic Tournament, offered in cal. .22 long rifle only, is available with 4½" or 6¾" barrel. The lockwork is substantially identical to that of the other models, but does not incorporate trigger pull adjustment. The barrels are not equipped with integral or detachable stabilizers. The fully-adjustable rear sight is mounted on the slide. Grips are of checkered plastic with walnut grips available at extra cost.

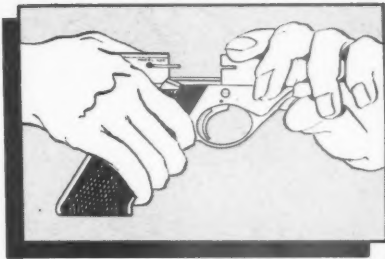
Disassembly procedure for the 4 models is substantially identical, thus instructions covering the Supermatic Trophy are basically appropriate to the other models.

In late summer of 1958 High Standard Manufacturing Corp. of Hamden, Conn., introduced 4 ten-shot detachable-clip cal. .22 semi-automatic pistols featuring detachable barrels and an improved lockwork to provide crisp and uniform sear disengagement. These guns were designated Supermatic Trophy, Supermatic Citation, Olympic Citation, and Supermatic Tournament. The first 3 guns are regularly available with

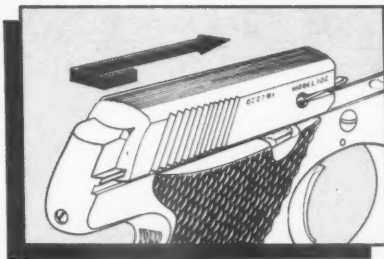
10", 8", and 6¾" barrels. The fully-adjustable rear sight is mounted on the slide of the 6¾"-barrel version, whereas the rear sight is mounted on the breech ring of the 8" and 10" barrels. The detachable barrel stabilizer minimizes muzzle jump, thereby aiding in quicker recovery of aim between shots. Screw adjustments are provided to vary weight of trigger pull and amount of backlash. The frame straps are grooved.



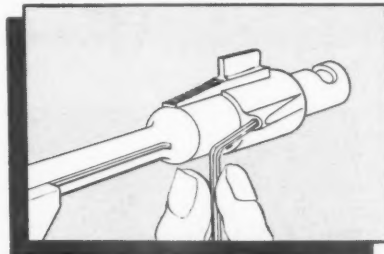




1 To disassemble Supermatic Trophy pistol, first press magazine catch (44) and withdraw magazine (51). Pull back slide (13) and lock it in place by pushing up slide lock lever (18). At same time inspect gun to insure that no cartridge remains in chamber. Next, move safety (39) to "On" position. This locks hammer (20) and sear (17), disconnects trigger (36), and completely separates sear bar (38) from sear. Grasp pistol as shown (left-handed persons should use a reversed grip) and depress barrel takedown plunger (31) with thumb. Lift barrel (5) out of its bedding with a straight upward motion. If, after extensive shooting, it becomes difficult to remove barrel by thumb pressure alone, press takedown plunger against a padded but solid object



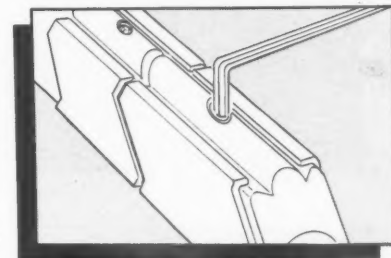
2 Continue disassembly by pulling back slide a short distance to release slide lock and ease slide forward off frame (34)



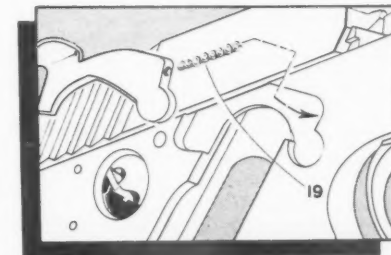
3 For top performance stabilizer (1) should be removed and cleaned every 300 rounds. Clean with tool furnished by manufacturer. Remove stabilizer by inserting proper-size Allen wrench (provided with gun) into stabilizer set screws (2) and back them off until they are clear of engaging slots in muzzle end of barrel. Stabilizer will then slide off

Parts Legend

1. Stabilizer
2. Stabilizer set screw (2)
3. Front sight
4. Front sight screw
5. Barrel
6. Driving spring plug
7. Driving spring
8. Extractor plunger
9. Extractor spring
10. Driving spring plunger
11. Driving spring plunger pin (2)
12. Extractor
13. Slide
14. Firing pin spring
15. Firing pin
16. Sear spring
17. Sear
18. Slide lock lever
19. Slide lock spring
20. Hammer
21. Hammer strut pin
22. Anti-backlash screw
23. Adjustable rear sight
24. Right bracket, short barrel weight
25. Right bracket, long barrel weight
26. Left bracket, short barrel weight
27. Left bracket, long barrel weight
28. Long barrel weight
29. Short barrel weight
30. Barrel weight screw (2)
31. Barrel takedown plunger
32. Barrel takedown plunger spring
33. Anti-backlash detent washer
34. Frame
35. Barrel takedown plunger pin
36. Trigger
37. Trigger pin
38. Sear bar and trigger pull pin assembly
39. Safety
40. Side plate
41. Side plate screw
42. Hammer strut anchor pin
43. Magazine catch pin
44. Magazine catch
45. Magazine catch spring
46. Right handgrip
47. Sear pin
48. Hammer pin
49. Sear bar spring
50. Safety spacer washer
51. Magazine
52. Sear adjustment screw plunger
53. Sear adjustment screw
54. Hammer spring
55. Hammer strut ring
56. Hammer strut
57. Grip screw (2)
58. Left handgrip



4 Forward weight and balance of gun may be adjusted by inserting proper-size Allen wrench (also provided with gun) into barrel weight set screw or screws (30) and loosening until either or both weights are movable within brackets (24 through 27). The weight may then be moved forward or backward as barrel groove permits. When optimum balance is achieved, tighten set screws with the wrench into detents provided



5 Should it become necessary to remove right grip (46) for replacement or exposure of working parts, slide lock lever (18) comes out very easily. Care must be exercised not to lose slide lock spring (19) as it is very small and hardly noticeable. When reinserting slide lock, make sure that this spring is properly seated in its hole in frame (34)

Just published . . .



The Illustrated HUNTERS HANDBOOK is RIFLEMAN size for easy handling and is bound in a handsome, 2-color hard paper cover for long life. Grouped within its 128 pages are 51 major articles and 18 shorter pieces of interest to both the beginner and the experienced hunter. The following list will give some idea of its helpful contents:

The Target and Beyond, Stay Loose!, Gun Handling in the Field, Sighting In at Short Range, Sight-In that Shotgun, The Lead Picture, Selecting and Using Binoculars, Selecting a Hunting Guide, Aiming to Stop 'Em, Field Care of Big Game, Shotgun Muzzle Devices, Choosing Between Shotgun Gauges, Hunting in Canoe Country, Hunting in Horse Country, Save That Trophy, Choosing a Deer Rifle, What is a Good Deer Head?, Hunting 'Farm' Deer, Shotguns on Deer, An Introduction to Deer Hunting, Drive-Hunting Deer, Locating that Buck, Hunting the Pronghorn, When Hunting Mule Deer, Planning an Elk Hunt, The Unpredictable Grizzly, Blackie is a Trophy, Duck Blinds, Marsh and Shore Bird Shooting, Duck Shooting is Real Sport, Tricks to Take River Ducks, Hunting the Honkers, Cornfield Duck Hunting, Hunting the Little Longbill, A Primer on Squirrel Hunting, Squirrel Hunting With a .22, Chuck Hunter's Primer, The Cottontail is No. 1, Jackrabbit Country, El Coyote! Long May He Live, Hunting the Red Fox, How to Call the Bobcat, Gunning the Sharptailed Grouse, Master of Fancy Turns, How to Hunt Quail, Badlands Turkey, Hunting Wild Turkeys, Autumn's Popular Ringneck, Our Deer Hunting Method, For 'Calling-Up' Deer, A Court Case of Consequence, An Offshore Duck Blind, Hunting Rocky Mountain Cottontails, Shotgun Psychology, Alpine Chuck Hunting, "Here's How I Did It," Try It This Way.

Special price to NRA members, \$2, postpaid from NRA Headquarters, 1600 Rhode Island Ave. NW, Washington 6, D.C. Three dollars to non-members.

BUILD NRA!

Membership at start of campaign—325,000. Current Membership—333,000

500,000



50,000 100,000 150,000 200,000 250,000 300,000 350,000 400,000 450,000

TARGET 500,000 MEMBERS

500,000

'BUILD NRA' IS THEME OF NRA MEETINGS

Chairman Fred M. Hakenjos of the Build NRA Committee (at right) addressed the closing session of the 89th NRA Annual Meetings. Mr. Hakenjos called for the cooperation of all NRA-affiliated organizations and individual members to promote the programs and membership of the National Rifle Association. Expansion of recreational shooting facilities and meeting the anti-firearms legislation threat were cited as prime purposes of the 500,000 membership effort.



More Build NRA Supporters

Gentlemen:

We are interested in the NRA membership drive and the need to educate the non-shooting public in this area on the facts of restrictive gun legislation. Please send me material on this subject and on hunter safety.

I have belonged to the NRA for several years. We are going to have to sell our program every chance we get or else wait and defend our program each and every time there is an accident or misdeed with a firearm.

Sincerely,
Harold P. Murray
College Station, Tex.

Gentlemen:

Please send me more application envelopes for enrolling new members.

All one needs to do is show hunters and shooters a copy of *THE AMERICAN RIFLEMAN* and explain the benefits. They are sold.

I am a short-time annual member and sure don't want to miss being in for anything. Just the thought that I can help repel some of the firearms bills which come up is far more valuable than the small membership dues.

John A. Mahon
Scotland, Pa.

How Can I Help Build NRA?

FOR the benefit of new members and those who missed the announcement in January, here in capsule form is what the Build NRA campaign is:

Purpose: To increase the number of people who participate in and support shooting activities and to increase the number and voice of informed sportsmen who oppose restrictive firearms legislation.

Goal: 500,000 NRA members.

Here's How:

1. Wear your membership insignia and display your NRA decal.
2. Be ready with information on what NRA stands for, its benefits and services. (See page 13)
3. Always carry membership applications with you.
4. Before giving out an application, write in the sportsman's name

and endorse the application. Offer to mail the application and his dues for him.

5. Telephone friends to tell them about NRA and to invite them to club functions.
6. Include information on NRA and membership applications (filled out and endorsed) in your correspondence.
7. Help to arrange public appearances, speakers, films, etc., where shooting and the NRA can be discussed.

Awards: In appreciation of the support of Build NRA by individual members and clubs, a series of awards ranging from insignia and handbooks through fine watches and radios has been established. Every NRA member and club is eligible for the awards by signing up new members.



Build NRA Award
for 50 new members



The Future of Hunting in America

How much and what type of hunting do the years ahead hold?

By Ira N. Gabrielson

IN my various contacts with sportsmen and game administrators over the past few decades, I have heard many pessimistic predictions that hunting was becoming a sport of the past, that the next few years would see the end of traditional American field sports, and that the sporting rifle and shotgun were on their way to becoming museum pieces and mementoes of a dead past. While admitting that there are a few dark blotches on an otherwise bright picture, I fail to share the forebodings of the prophets of doom.

In the many years since I first heard these dire predictions of the future of

hunting, I have seen one state after another open hunting seasons on deer, which had been absent from their states for half a century or more. I have seen the pronghorn antelope, which was considered by all competent authorities to be headed for early extermination when I entered wildlife work before World War I, rise to second place in importance as a big-game animal in the West. I have seen open seasons reinstated on elk and moose, mountain sheep and goats in one state and province after another. In the same period of time, the number of hunters has increased from around 2 million to approximately 12 million today. Moreover, since World War I, there has been a tremendous strengthening of the knowledge of how to manage wildlife and hunters to assure an adequate harvest of game without endangering the future of any species. For the most part, the state, federal, and provincial game departments are staffed with qualified scientists who individually possess a more intimate knowledge of the life habits and effect on hunting of the various species of wildlife under their jurisdiction than any dozen of their counterparts of little more than a generation ago.

To start first with the darker aspects of the immediate future, I can foresee relatively hard times ahead for the average duck hunter and upland game hunter, particularly those whose preferences incline toward game species that are found predominantly upon the agricultural lands of the continent. All game is dependent upon the use which is made of the land, and the predominant modern agricultural pattern of large, intensively cultivated, single-crop

farms does not lend itself well to small-game management. The bobwhite and cottontail rabbit and, to a lesser extent, the ring-necked pheasant—the big 3 of the upland game species in America—require a diversity of cover types which is conspicuously absent from many of the specialized farms of today. Undoubtedly these 3 popular species reached their peaks of continental abundance before the loss of the small, diversified family farm as the universal agricultural unit in America.

Habitat loss only partially offset

Some of the loss of habitat, to be sure, has been offset by the Soil Conservation Program—by the replacement of barbed wire with multiflora rose hedges, by strip cropping and contour farming, and by the construction of farm ponds—but, in many of the richer agricultural zones, large, single-crop fields which lend themselves to mechanized farming are the rule. The use of chemical herbicides and insecticides in controlling farm pests also has reduced the usefulness of the modern farm to wildlife, and intensified programs of this kind can be expected in the future.

In the Northeast, much former pheasant, quail, and cottontail habitat is reverting to forest. In the Southeast, and to a lesser extent in the Middle Atlantic and northeastern states, the growth of the tree farm program has cut heavily into once productive quail habitat. The planting of hundreds of thousands of acres of formerly open or partially open lands to pure stands of pine has eliminated an equivalent acreage of prime quail cover.

Where quail and other small game



Ira N. Gabrielson, President of the Wildlife Management Institute, has been concerned with wildlife management since 1915. After 20 years in the West with the Bureau of Biological Survey, he became Chief of its Bureau of Wildlife Research. In 1940, when the U. S. Fish and Wildlife Service was formed, he became the first director of the new agency. He retired from federal service in 1946 to assume his present position. He is author of 6 books and hundreds of articles and papers, both scientific and popular. This article is the address he delivered at the NRA Annual Meetings in the Hunting and Game Conservation General Session.



The mourning dove, which produces several clutches of eggs a year and can find suitable nesting sites in suburban shade trees, provides increasing shooting for the upland game hunter

are encouraged through specific intensive cultural practices on large specialized farms and ranches, the public often is excluded from those areas because those efforts stem from a desire of the owner to improve hunting conditions for his family and immediate friends, or from a desire to create a private refuge on which no hunting is permitted. Vandalism and outright lawlessness on the part of a small minority of hunters also have closed many millions of potential hunting areas to the sportsman. In this we have a perfect example of the vicious circle. Under crowded hunting conditions, sportsmanship tends to break down: posted land tends to concentrate hunters on lands remaining open to the shooter; which leads to crowded conditions that cause more posting. In parts of the nation, the small-game hunter who does not have rural friends finds himself almost entirely excluded from quail and pheasant hunting.

Various attacks upon problem

There have been many attacks upon this problem by the official agencies and by sportsmen's organizations, all of which have been effective to a degree, at least locally, in checking the trend. Educational programs designed to encourage sportsmanlike attitudes toward the landowners have improved farmer-sportsman relationships, but they never can eliminate entirely the careless, illegal, and vandal shooter. Improved law enforcement has helped thin the ranks of the undesirables, but in most states conservation officers are so overworked and are spread so thinly over the landscape that they are a minor deterrent to the callous violator. Without doubling or tripling the hunting license fees, or eliminating other equally valuable programs, this situation will prevail; and law enforcement is only part of the answer.

The rise of the commercial shooting preserve within recent years assures the future of upland game hunting and duck hunting for the man who can afford the fees asked by the preserve owners. Private clubs, which own or lease hunting areas, can assure their members of hunting privileges for many years to come; but the unattached hunter with the secondhand gun, a

mortgage on the house, and a tight family budget must depend upon his own resources and the facilities that the state can provide.

Some states have been more aggressive than others in developing public hunting areas. Pennsylvania with nearly 3 million, Minnesota with 2 million, and Michigan with more than 4 million acres of public hunting lands, many of which are managed for small game, foresaw the present hunting pressures years ago and did something about it when land could be acquired for next to nothing. With high land values, the acquisition by purchase of public hunting areas today involves great expense. Other states have used cooperative agreements with landowners to open posted agricultural lands. Massachusetts, one of the smaller and more densely populated states, for example, has been conducting an aggressive program along these lines in recent years. Safety areas around homesites, farm buildings, and other areas of heavy use are posted against all hunting while the remainder of the farm is left open to public hunting. A similar feature has been incorporated in the Hunt America Time Program of the Izaak Walton League of America, which deserves strong support by anyone interested in the future of hunting in America.

A basic problem, however, remains in the general deterioration of farm-game habitat as a result of trends toward a more intensified, more mechanized, and more specialized agricultural pattern. As series of small, marginal family farms are merged into single one-crop fields, as cities and suburbs sprawl over the landscape, and as government-subsidized brush clearing and drainage activities take their toll of nesting and escape cover, the national population of small farm game must inevitably decline. Except in those states which already have taken imaginative and aggressive steps to preserve open hunting for its sportsmen, the hunter who cannot afford to patronize a shooting preserve or join a hunting club will find farm-game hunting opportunities increasingly difficult to locate.

Waterfowl habitat shrinking

Opportunities for the free-lance waterfowl hunter in the more thickly settled portions of the country appear even grimmer than those for the farm-game fancier. In a number of states the better hunting marshes are closed completely to free public shooting. The sportsman must pay what the landowner or blind owner asks, or he does not shoot. The sportsmen in the well-watered Northeast and in other regions

where fair to good duck hunting can be found on inland ponds and streams probably have brighter futures as duck hunters than their coastal cousins. In agricultural areas of intensive use, the same conditions apply to waterfowl hunting that apply to upland game shooting. With waterfowl in particular, we are dealing with a group of birds that require a highly specialized type of habitat, and one that is shrinking rapidly under the assault of many diverse economic pressures. The filling of marshes for industrial and residential sites, agricultural drainage, mosquito control, flood control, channelization of rivers for navigation, and similar practices are taking a toll of waterfowl habitat from the breeding grounds in Canada to the wintering grounds of the Gulf Coast. No immediate reversal of this trend is in sight.

As a result of shrinking habitat and a severe drought, we have witnessed within the past season on migratory waterfowl a foretaste of what we can expect in the future when Nature refuses to cooperate with the wildlife administrators in supplying enough water for the breeding grounds. The duck population in general fell off by at least 20% last year, and reduced bag limits and tighter restrictions all around had to be imposed upon the duck hunter to assure future supplies of waterfowl breeding stock. The immediate future of waterfowl hunting is anyone's guess—it will depend entirely upon whether rain falls in the breeding areas of the major waterfowl producing areas of the United States and Canada in proper quantities and the right time next season.

If the drought continues for several years, the situation will be critical, and we can expect a closure of hunting on at least some species of ducks, particularly canvasbacks and redheads, as well as more restrictions all around. If we are favored with normal or better-than-normal water conditions, it still will be necessary to retain the curtailed hunting regulations of the past season for at least another year in order to permit waterfowl populations to rebuild to normal levels. Certainly, in the face of increased hunting pressure and decreased habitat, a return to the generous bag limits and seasons of 15 years ago should be little more than a remote hope, unless there is an unforeseen and abrupt reversal in present land-use trends in the immediate future.

Bright future for mourning dove

While the future for the farm-game and waterfowl hunter appears gray, there are compensating factors even for the upland game hunter. In those

states that permit the shooting of mourning doves, regulations have been more liberal in the past 2 years than at any time in the recent past. The mourning dove, America's most widely distributed small-game bird, is assured of a bright future by the nature of its life history and breeding habits. Unlike the specialized waterfowl, it can find suitable nesting sites even in suburban shade trees: its breeding range encompasses the entire United States outside Alaska and Hawaii, and it produces several clutches of eggs a year, all of which provide built-in protection for the species from anything except a cataclysm of the magnitude of a new Ice Age. As a result of intensive study during the past 10 years, more is known today of the management needs of the mourning dove than at any time in the past. Under careful regulation of hunting privileges, the dove should provide excellent sport for the hunters of future years.

Several other migratory game species are under-exploited by sportsmen. The woodcock passes unnoticed by most hunters between Pennsylvania and the Gulf Coast on its southward migration each fall. Rails are taken by few hunters in those scattered localities along the coast where rail shooting has been traditional since colonial times.

Of all of the categories of wildlife, however, the forest-game species appear destined to play the most important role in the future. Excellent ruffed grouse hunting is available today in much of the East, and most ruffed grouse habitat remains unposted and under-exploited by hunters. A bird of young second-growth timber stands, it is found in numbers throughout much of the forested portions of the East from Canada to Georgia as well as in the northern mountains of the western states. In their preoccupation with quail and pheasants many sportsmen and game administrators ignore the bird almost completely. Bag limits and seasons for the most part are ultra-conservative in a majority of the states outside the Northeast, and the bird generally could stand much more shooting pressure than it is currently receiving. Ohio recently increased its grouse shooting season to 3 consecutive months after studies indicated that the bird was in no danger of being over-harvested under present hunting conditions. Massachusetts last year extended its grouse shooting season by an additional week for the same reason. The liberalizing of grouse seasons could be accomplished by most other states without damage to breeding stocks, with the effect that pressures could be relieved from the intensively hunted farm



Waterfowl require a highly specialized type of habitat, one that is shrinking rapidly. There is no immediate reversal of this trend in sight

lands. As quail and pheasant shooting become more difficult to find, I foresee an increased interest on the part of the upland shooters toward the dove, the grouse, and the woodcock.

Deer hunting increasing

If the future for the shotgunner appears spotty, that of the big-game hunter and rifleman was never brighter. At the turn of the century few of the eastern states still permitted deer hunting, and few deer were killed in those states that did permit it. Last year the total deer harvest over the United States approached 2 million head. The kill has been rising steadily for many years, and we still do not seem to have reached the peak. The sensible concept of harvesting antlerless deer is becoming accepted as a fact of life by the sportsmen and game administrators in nearly all states, and this in itself will increase the hunting opportunities for many sportsmen. In most states the deer population is still increasing, leading to agricultural crop damages and the destruction of forest reproduction. Where the quail hunter and pheasant hunter are excluded by the landowner, farmers faced with economic losses from over-abundant deer often welcome the well-behaved and careful hunter. An increasing number of private timber-owners are using controlled deer hunts to minimize damages to the forests.

The pronghorn antelope, which most authorities had relegated to the list of dying species in 1920, has today become, under sound management and protection, a major game animal of the West. In Wyoming it is on a par with the deer in the number bagged annually. Its numbers are still increasing over most of its former range, and the majority of the western states have opened general or limited hunting sea-

sons on it within the past few years. The elk also appears to be in excellent condition to absorb at least some hunting pressure in the future under regulated shooting seasons and special-permit hunts in the western states.

In summary, I feel that hunting is not a sport of the past, although I foresee some adjustments in the attitudes and habits of many sportsmen. For the deer hunter and for residents of those states where antelope and elk are found, the future of their sport appears assured, at least for the next generation or so, and perhaps longer. The greatest future for the sportsmen lies in those states where an abundance of national forests and other public hunting grounds have been established.

The future for the quail hunter or pheasant hunter, particularly those living in states where the conservation departments have been slow in preserving open areas for their shooters, is less bright. In such states, for those who do not care to or who for economic reasons cannot patronize shooting preserves or join a club, the only recourse will be to turn to other species that are found on non-agricultural lands.

Even with farm game, however, the picture is not entirely black except in a relatively few regions. Game administrators have only begun to tap their ingenuity in finding space for their sportsmen. Some of the methods, already tried by some states, cost money: others require nothing but the application of aggressive imagination. Cooperative agreements with landowners to permit limited access to farm lands, selective posting of areas of human use on farms, and limited access or daily fee shooting areas controlled by the state are proven possibilities. Cooperative agreements with federal and state agencies owning or controlling large acreages of upland game habitat have not been explored in many states. Florida opened several million acres of once posted lands to hunters by such agreements with cattle growers and with the Air Force several years ago. Massachusetts recently began developing upland game shooting on its state forests.

Hunting in the future undoubtedly will become a more crowded and a less carefree proposition than what we have known in the past, but 12 million paid licenses indicate that it is far from a dying sport. The future will depend upon how the game administrators and we, as sportsmen, use the experience of the past in meeting new situations and new problems. For myself, I do not expect to see the day when I am forced to hang up my favorite guns, as long as I have strength to lift them to my shoulder. ■

CUT SHELLS

By E. H. Harrison
NRA Technical Staff

THERE is a recurrent desire among shooters to make their shotguns deliver much smaller patterns than normal. Usually it is expected thereby to make the shotgun effective at unusual range. Sometimes a special effect in shooting whitetail deer with the shotgun is desired.

In muzzle-loading guns, and in breech-loaders before introduction of choke boring, there was some success with devices called 'concentrators' which were wrappings of wire mesh, etc., designed to hold the shot together during the first part of its flight. Sometimes these did work more or less as intended, but no way was ever found to make them uniform in action. Choke boring seemed to make them even more irregular, various dodges were tried in vain, and they disappeared from use.

The idea survived, however, in a practice called 'cutting the shell'. This is done by cutting through the paper shotshell body just behind the wads, leaving 2 or 3 points to hold the shell together. The plan is that the shell forward of the cut, containing the shot and closed at the forward end by the crimp and behind by the wads, should travel as a single projectile, and remain so through at least part of its flight. The operation is done as a home remedy when a shot beyond the usual power of the gun is to be taken.

While its effectiveness was generally conceded, there have been many warnings because of the dangerous pressure 'obviously' involved in this practice. Not only are the shell body and wads added to the weight of shot that must be moved, but also the assembly must be squeezed down from nearly chamber diameter to diameter of the bore which is considerably smaller. This has been rather generally appreciated, and the operation is practiced only occasionally.

It appears, however, that the pressure involvement in this practice has never been measured. Therefore THE RIFLEMAN had the velocity and pressure measured in shells so treated. Measurements were made by H. P. White Laboratory, Bel Air, Md. Factory-loaded shells of a single make, with a single shot size, were used throughout to facilitate comparison, and all 3 principal load types—field or target, high velocity, and 2¾" magnum—were included. These were cut at rear edge of wadding as this operation is usually done. In addition one series was fired with cut at front edge of wadding. Control series with normal shells were fired. All series were of 10 shots. The results:

Ammunition	Condition	Muzzle Vel. (f.p.s.)	Extreme Spread	Pressure (p.s.i.)	Extreme Spread
12-ga. Remington Shurshot 1¼ oz. #4 shot	Normal	1206	107	8390	1100
	Cut	1080	179	6542	3100
12-ga. Remington Express 1¼ oz. #4 shot	Normal	1312	35	10410	1400
	Cut	1143	61	8020	1200
	Cut*	1248	45	8820	1000
12-ga. Remington Express 1½ oz. #4 shot	Normal	1267	64	11480	2700
	Cut	1096	150	6460	3600

* Shell body cut at front edge of wadding

Patterns from the pressure gun and from a full-choke shotgun barrel showed about the same spread from cut and normal shells. However, patterns from cut shells tended to be out of round. The reason appears to be the action shown in Fig. 2.

It is necessary to sever the paper case almost completely, to cause it to go out the muzzle with the wads and shot charge. On several shots during measurement of velocities and pressures and in firing from a shotgun, the case parted but remained in the chamber and forcing cone, though the cutting had been done with care (see Fig. 3). On these occasions the empty paper remained in the chamber sufficiently to prevent loading another round. However, it appears possible that at times it might be moved forward out of the chamber, forming a bore obstruction for the next shot. The shells must be so nearly severed that they must be held together by hand and loaded singly into the gun chamber.

The shell heads left behind did not obturate well. The shooter felt powder grains or fouling strike his face at every shot from a self-loading shotgun (see bottom row in Fig. 3).

While 'cutting the shell' thus eases pressures (a quite needless assist to any serviceable modern shotgun), this unnecessary advantage is much outweighed by the weak and irregular shooting produced, the difficulty of carrying the cut shells, and the possibility of a bore obstruction.

A more fundamental consideration is that the ammunition is not designed for

any such use, and other and even worse results might appear quite unexpectedly if this operation were tried with a variety of guns and shells, and under different firing conditions. This is the most important reason this old practice should be avoided.

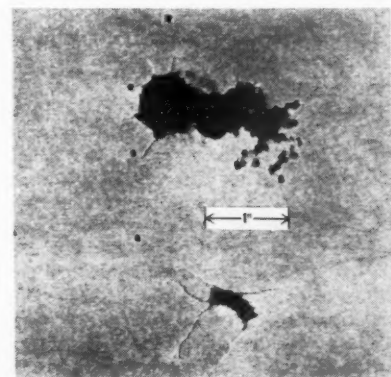


Fig. 2: Pattern of cut 12-ga. shotshell at 5 yds., full-choke gun. Shot charge has begun to clear remains of shotshell body on right side only. Hole at bottom was made by a wad

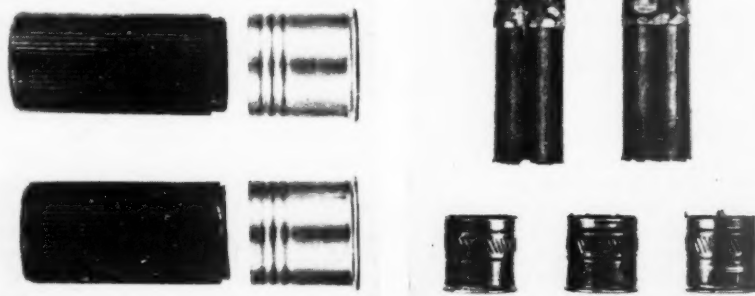
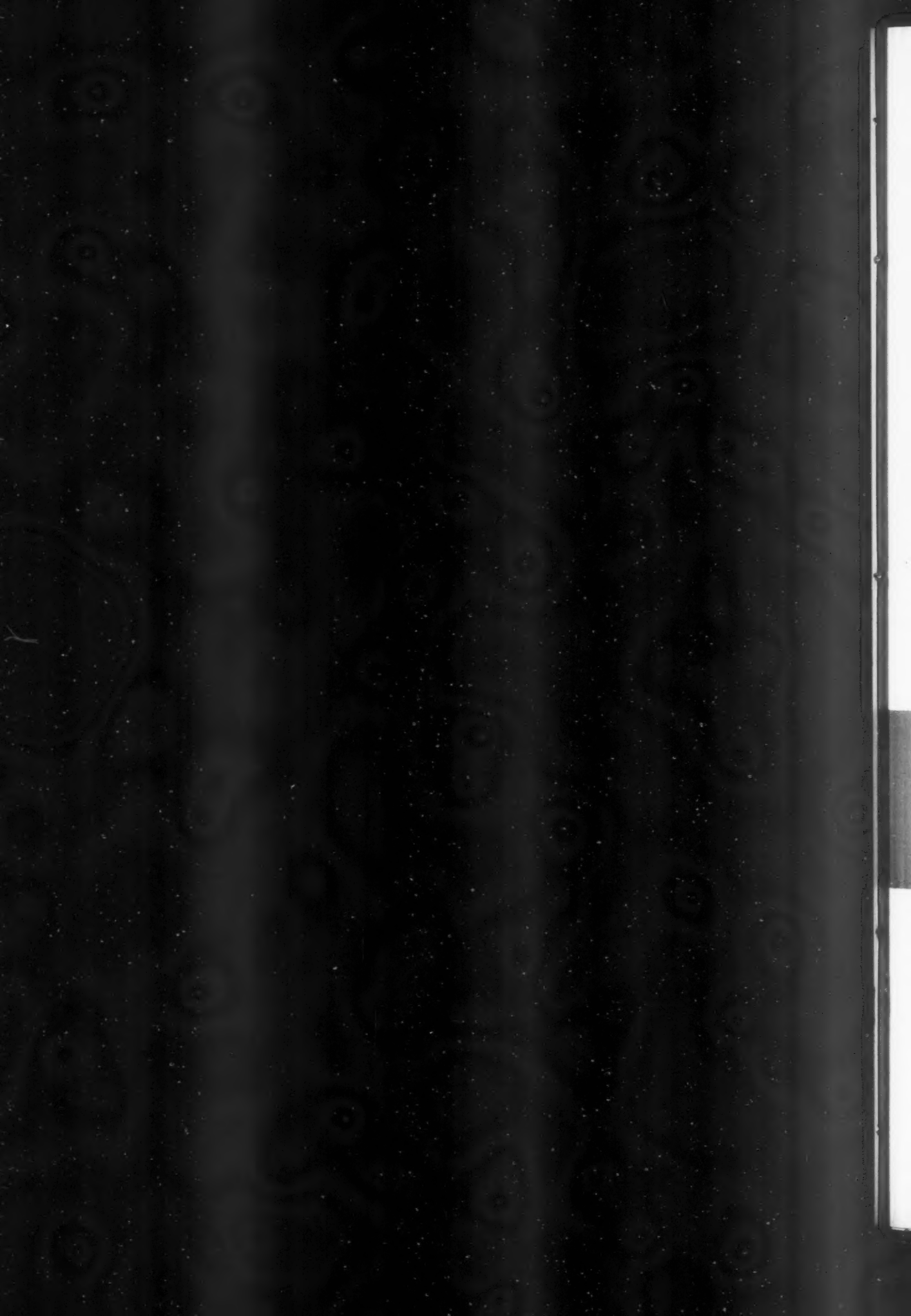


Fig. 3: (top to bottom) Cut shotshell body picked up in front of gun; cut shell bodies which remained in forward part of gun chamber; and heads left behind in firing cut shotshells, each blackened on one side by escaping gas

Fig. 1: 2¾" magnum (top) and high-velocity 12-ga. shotshells cut to permit paper shell body, wads, and shot to leave gun together. Shells shown fully separated





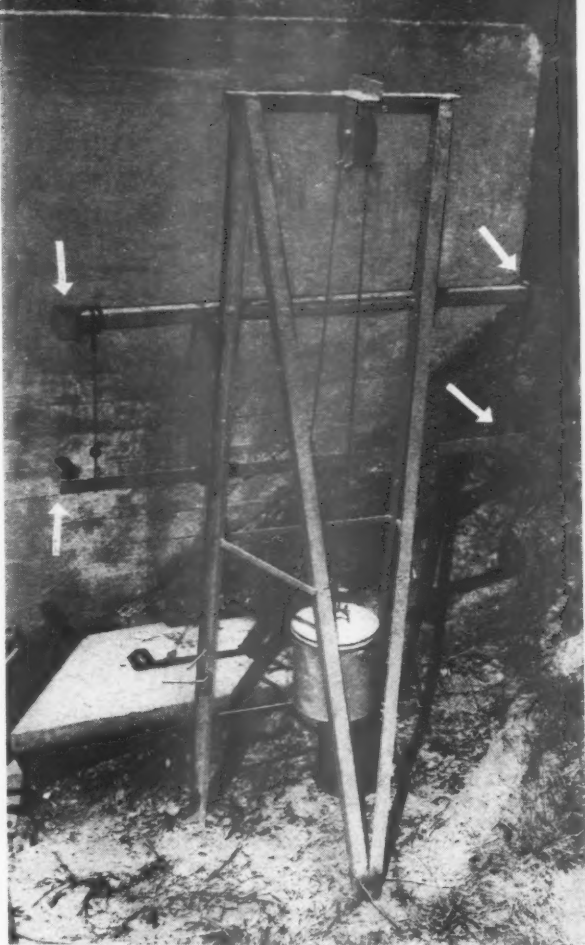


Fig. 1: Tri-base carrier, shown at halfmast. Target frame sockets are indicated by arrows. Light moving parts, accurate alignment of frame, and rollers on guides make operation much easier than in conventional target carriers

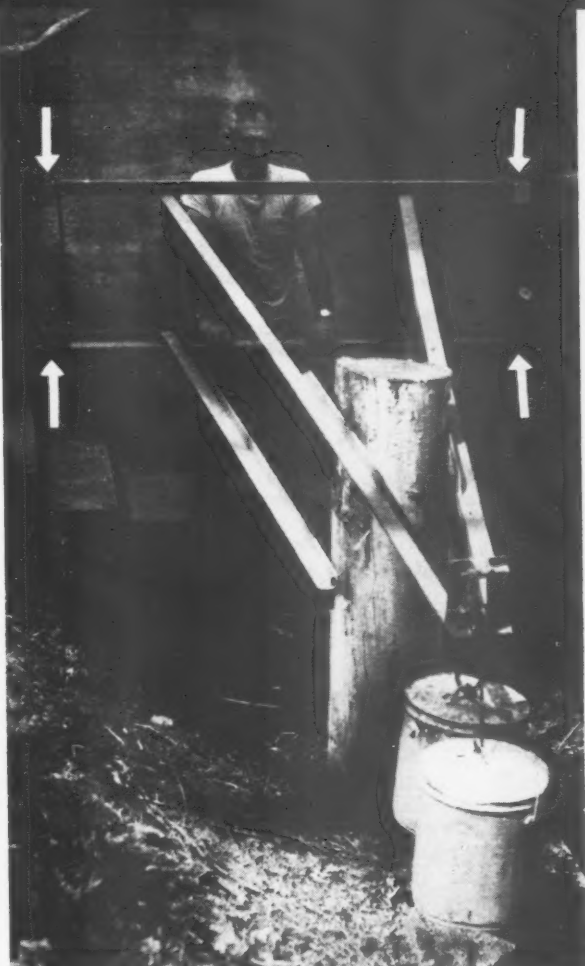


Fig. 2: Para-leg carrier, shown at halfmast. Base of this pilot model is short length of telephone pole which is quite satisfactory, but is replaced with 6" steel channel in final design (see Fig. 3). Arrows indicate target frame sockets

Two Target Carriers

Design stresses low-cost construction, minimum maintenance, and ease of operation

By A. A. Abbatiello

MOST target carriers follow the conventional double-hung window design, or occasionally a single rising frame with counterweight. Something entirely new was desired which would give easy operation, minimum maintenance, and low construction cost.

Two designs were worked out to provide sturdy, long lasting, and easy-to-operate carriers. Both were built and tested, and both operate quite satisfactorily.

The "Tri-base" carrier is shown in Fig. 1. It consists of a welded angle-iron frame guided by rollers on the legs of 2 vertical angles which form the

track. It is counterweighted by a single 5-gallon concrete-filled bucket, weighing about 100 lbs. The vertical tracks are reinforced with cross members and supported at the top by diagonal braces which come together at the lower rear bolting plate, giving the unit its name. The use of diagonal bracing for the main members gives the structure good rigidity with economical use of material. Three bolts are required to lag the carrier to the concrete floor. A latch keeps the moving frame down when the targets are being mounted.

The figure also shows the arrangement of the target carrier in the pit.

Only the wooden parts of the target frame are exposed to fire, to avoid ricochets. Either conventional wood frame targets or the rolled curtain type may be used. With the latter, the lower cross bar is pulled taut by means of spring-loaded hold-down hooks. When standard wooden target frames are used, they are lowered into the frame sockets. These have the standard 66" spacing so they will accept the standard target frame.

When changing from 600- to 1000-yd. targets, the extra weight of the 1000-yd. frame is balanced by shifting half the weight difference (2 sash weights) from

A MAN TO REMEMBER

JOHN C. GARAND

Invented the Garand rifle

Born—Jan. 1888,
St. Remi, Quebec,
Canada



JOHN GARAND spent only 10 years in Canada before his parents moved to Denisonville, Conn., and then on to Jewett City. At age 20 he became a tool- and gauge-maker for Browne & Sharpe and then in 1914 he became acting foreman and machine designer for Federal Screw Corp. in Providence, R. I.

From Providence, Garand moved to New York City, and it was there that he turned his attention to developing automatic firearms. The first World War focused attention on such weapons, and Garand was interested to learn of the frequent malfunctions that plagued them.

Having conceived some designs which he thought would eliminate such failures, he approached the Naval Invention Bureau and was soon put to work at the National Bureau of Standards in Washington, where he successfully developed a primer-activated light machine gun. There Maj. Lee Wright met the inventor and was sufficiently impressed to obtain Army Ordnance sponsorship and move Garand to the Springfield Armory in 1919.

Garand's machine gun had been soundly designed, but it failed to perform the functions the Army desired in such an arm. Thus Garand was instructed to develop a semi-automatic rifle, and this he proceeded to do, still using the explosion of the primer to activate the mechanism. He succeeded in perfecting such an arm only to have a change in ammunition adopted in 1925 force him to redesign his rifle, this time utilizing gas pressure for the activation.

Tests of the new rifle were highly satisfactory, but before even limited production could be started the caliber of the rifle was ordered increased from .276 to .30, and this caused further delays and alterations before the final adoption of the arm on Jan. 9, 1936. Garand is retired and lives in Springfield, Mass.—HAROLD L. PETERSON

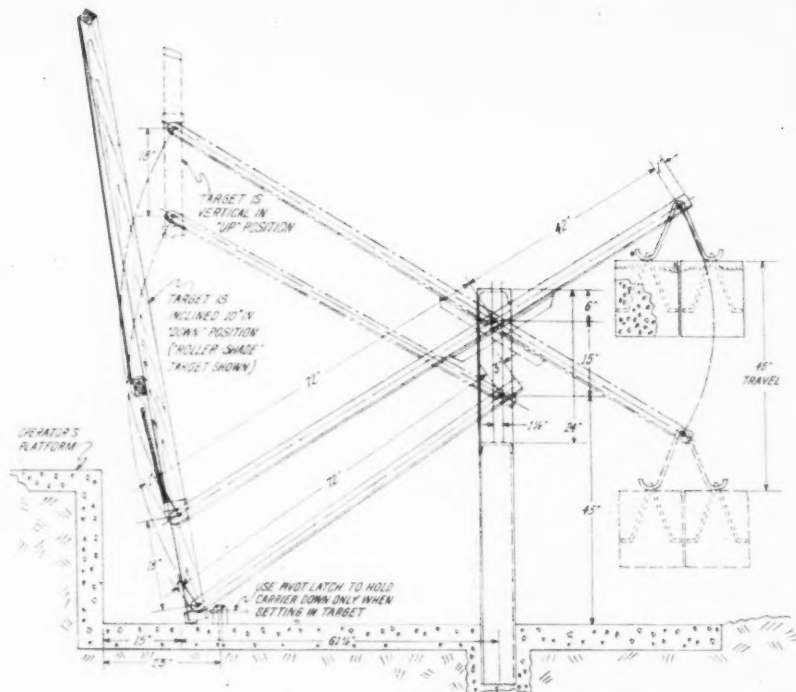


Fig. 3: Essential dimensions of Para-leg carrier. Desirable toggling action results from column hinge pins 3" closer together than target hinge pins, and upper column hinge pin 1 1/2" closer to parapet than lower pin

the carrier side to the counterweight side. However, if targets without the "2" value are used the 600-yd. target frame will hold them and no counterweight change is needed.

The "Para-leg" design, shown in Fig. 2, is a counterbalanced double parallel-gram linkage. It will stay in either the up or down position until it is pulled across dead center. It has the advantages of extreme simplicity and the minimum of parts, but requires slightly more space and pit floor behind the target.

It uses exactly the same moving frame section as the Tri-base, except that the rollers are omitted and four 1/2" holes for the hinge-pin bolts are added. This was done to make the parts interchangeable during prototype development. The pivoting legs operate as a parallelogram when viewed from the side. When viewed from the top, the legs form a triangle with a common point at the counterweight. This arrangement gives maximum lateral stability with minimum material.

The target is vertical when up. By proper location of the lower rear hinge pin the target can be made to lean forward about 10° in the down position. This is a help in finding and patching shot holes. In addition, when the center of gravity moves forward as the target tilts, it causes the target to remain in the down position until it is pushed up

to the midpoint, when the counterweight overrides it and carries it to the up position. The counterweight is two 5-gallon buckets filled with concrete, each of about 100 lbs. By proper balancing, less than 10 lbs. force is adequate to move the target from either the up or down position, and the target can be worked with one finger.

Because of simple design and fabrication, Para-leg target carriers can be built for about \$55 each with salvaged materials, or about \$75 each with new materials. Cost of the Tri-base carriers was about \$90 each. Both these costs compare favorably with the \$96 of the wooden DCM target carriers. However, the main attraction is ease of operation, together with minimized maintenance.

After practical use of both of these target carriers in registered matches, and based on the preference of the target operators, the Para-leg design was chosen for the new 20-point 1000-yd. range our club intends to build. Minimum maintenance should result because the structural members are angle iron with simple hinge pins accomplishing the purpose previously served with slides, ropes, and pulleys.

These target carriers were built for the Oak Ridge Sportsmens Association Range at Oak Ridge, Tenn. Acknowledgement is made to W. E. Brundage, also of the ORSA, for the early discussions which led to the development of the parallelogram prototype.





The competitive shooters' SCORE SHEET



SFC William B. Blankenship, Jr., USA, won 2 and placed third in the 3 Florida Mid-Winter pistol tournaments. He started with a 2643-120X victory at the 5th Annual Dixie Pistol Matches, walked off with first-place laurels at the 29th Annual Tampa National Mid-Winters with 2649-139X, and ended up third at the Flamingo Pistol Tournament with 2603-118X. . . . Winner at Flamingo was **Sgt. Donald Jaynes, USA**, with 2607-83X.

Dr. Robert B. Kennerly out-X'ed **Lt. John T. Bertva, USAF**, 3189-241X to 3189-204X, to take the 24th Annual St. Petersburg Smallbore title. . . . The winner at the 1960 Sawgrass Smallbore Championships was Unclassified shooter **SP4 Michel Dunia, Jr., USA**, in the Position Aggregate with 1524-48X, and **Herb Hollister** in the Prone Aggregate with 3188-197X.

Lt. Tommy Pool, USA, and **Sgt. James E. Hill, USMC**, topped the entry list at the Fresno (Calif.) International Olympic Preliminary Tryouts. Pool shot 1125 at 300 meters and Hill posted 1138 at 50 meters. . . . Over 1500 competitors entered the 29th Annual Connecticut State Gallery Matches with first individual honors going to a 198x 200 (4 positions) by Yale University student **Robert J. McCormick**. The over-all team honors went to the **Torington Rifle Club** with 779.

Recent indoor rifle Sectionals show **Kenneth Cummins** high at Willows (Calif.) with 793x800. Second at this event was **Irvin Brown** with 791. High team was the **Ukiah Rifle Team's** 1569. . . . **Lt. Frank F. Briggs, USMC**, won the Burbank (Calif.) Sectional with 792. The **Marine Training Unit Team**

placed first with 1547. . . . **Lones W. Wigger, Jr.**, shot a 792 to take the Big Timber (Mont.) honors, while the **Montana State Varsity No. 1 Team** led the team category with 1568.

Robert Ralston posted the high 790 in the Michigan City (Ind.) Sectional, and the **Wheaton Rifle Club** took the team title with 1553. . . . A 789 by **Tao-Yuan Wu** was good for the Detroit win. . . . **Robert Sandager** also fired a 789 to win the Minneapolis Sectional. First team was the **North Star Rifle Club** with 1568. . . . The **X-Tree Rifle Club** ended up with a winning 1568 while **Clyde Ruegg** was high individual with 788 at Portland. . . . Leading the individuals in the Whiting (Iowa) match was **August Westergaard's** 787 total. A winning 1530 was carded by the **Royal Iowa Rifle Club**.

Floyd Best won the Spokane Valley (Wash.) Sectional with 785, and the **Grand Coulee Team** shot a first-place 1554. . . . The winner at Alamogordo (N. Mex.) was New Mexico State University student **Otto M. Wildensteiner** with a metallic-sight 781. The high 1547 team score was posted by the Las Cruces Rifle & Pistol Club. . . . Top shooter at Fargo (N. Dak.) was a 780 by **Ray Abentroth**. . . . Gunsmith **John Guitar, III**, and the **Durango Rifle Club Gold Team** took the Durango (Colo.) awards with 777 and 1560 scores. . . . **Hubert F. Large** headed the entry list at Alton (Ill.) with 775. . . . Another 775 was shot by **Virgil Hamlin** for first at Douglas (Wyo.).

In the pistol Sectionals **Maurice G. Baum** raised his own National Civilian timed-fire record from 200 plus 8 tens to 200 plus 9 tens at Medford (Oreg.).

Baum also took individual honors with a fine 870x900. High team was the **6333rd USAR Special Marksmanship Unit Team** with 1152, also a new Civilian record.

Winner of the 2nd Annual Eastern Invitational & Southern New England Sectional was **Robert A. Baxter** with 869. First in team competition with 1145 was the **USCG Thames River Gun Club Team**. . . . An 865 was high score at San Bruno (Calif.) with Army shooter **Donald Sicafuse** taking the crown. The leading team was from **Ft. Ord**, 1137. . . . Police officer **Jimmie Minnick** fired an 853 winning aggregate at Portland. The **Seattle Police Athletic Association Burglars** won the team match with 1120.

Gil Hebard topped the field at the Davenport (Iowa) event with 844, while the **Arsenal Marksmen Team** had the award-winning 1071. . . . The **Minneapolis Club No. 1 Team** broke a tie with the **14th U. S. Army Corps Team** to win with 1125 at Minneapolis. Individual champion was **Sgt. Gerald F. Mitchell, USA**, 840. . . . **Robert L. Moore's** 828 and a 1083 by the **Sandia Base Blue Team** was good for the Durango (Colo.) victory.

Leading the recent Junior Sectional returns is **Kenneth Leong** with 387 at Wailuku, Maui, Hawaii. . . . **Harold V. Heidrich** took the Westbury, L. I. (N. Y.) award with 386. . . . At the St. Louis (Mo.) Junior Sectional **William J. Bradburn** placed first, also with 386. . . . 383 totals were the winning efforts of **Roger Leezer** at Willows (Calif.), **James Peacock** at Ft. Benning (Ga.), and **Ben Craft** at Baltimore (Md.). . . . At the Newport (R. I.) Sectional, **William Brierley** shot a 382 win. . . . A 381 by **L. D. Nybo** was good for the Billings (Mont.) laurels. . . . **Jim Elder** posted an even 380 to take the Orange (Tex.) first-place award. . . . Top shooter at Watertown (S. Dak.) was **Mike Clark** with a 367 aggregate. . . . High team score among the above Junior Sectionals was the **Roslyn Rifle & Revolver Club Junior Division Team** with 1512 at Westbury.—**JOHN J. GRUBAR**



Blankenship



McCormick



Ralston



Wildensteiner



Abentroth



Baxter

Trapshooting Fundamentals



**Suggested leads . . .
on each target,
from every position,
at all yardages**

TRAPSHOOTING is a highly competitive, participant sport, in which par is a perfect score. But it does not always take a perfect score to win, nor is it necessary to be a high-scoring shooter to derive keen enjoyment from this popular shotgun game.

To break the flying target is the objective, and to improve your score is the constant incentive. If you understand why you lost a certain target and can break the next bird by making the proper correction, you are improving your average.

An aid to beginning shooters

The whole subject of how to shoot is a very personal one, and there are many schools of thought. We do not expect 100% agreement, but we are trying to fill a void that exists, and that is acutely felt by the beginner.

We are *not* trying to tell high-scoring trapshooters anything about how to break targets. They have already figured out their own concepts of horizontal and vertical leads, as well as the sight picture that is effective for them.

"How far do you lead a certain target?" is a question that has been asked by new shooters of experienced shooters since the first clay targets were thrown from traps.

On every trap field shooters talk about being 'behind that angle' or 'under or over that straightaway', but reference figures have never been available showing the theoretically correct leads.

However, we now have mathematical answers on leads for all angles and from each shooting position, by feeding the following well-known and established factors into a modern computer:

1. Speed of shot charge starting at 1200 feet per second (f.p.s.).

2. Speed of target at 80 f.p.s. leaving the trap.

3. Arc of target flight.

4. Trajectory of shot load.

5. Average breaking point for singles at 20 yds. in flight.

6. Average breaking point for doubles at 17 and 25 yds.

Until a target reaches its apex in flight, it is not only moving away from the shooter but is also rising. So the Remington Fundamental Research Department developed data on both horizontal and vertical leads, based on the instant the first pellet of the shot load reaches the spot where the target crosses the shot string, if the gun is correctly pointed. We now have some interesting new figures showing the suggested lead on each target, from every position, at all yardages.

Characteristics of shot load

There are approximately 400 pellets in a 12-ga. target load of No. 7½ shot. In shotgun vernacular, as this shot load streaks toward the target it becomes shot string and pattern.

Shot string: Obviously, not all 400 pellets reach the target at the same instant because the load strings out as it moves down the barrel and out the muzzle. The average length of this string is 12 ft. at 40 yds. from the muzzle, rough-

ly 1 ft. for each 10 ft. of travel.

Pattern: Usually defined as the percentage of total shot charge that strikes within a 30" circle at 40 yds. distance from the muzzle.

Hitting the target

Actually what does occur when you try to hit a clay target 4-5/16" in diameter, traveling at 80 f.p.s.?

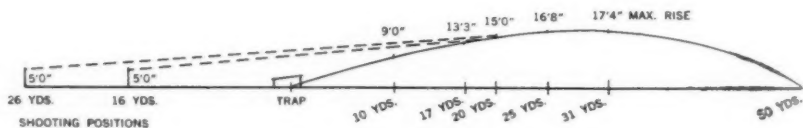
In a split second you point the gun in the direction the target is moving, swing through the target, and pull the trigger, thus starting a stream of shot moving toward the point where your sight picture indicates the flight of the target and the shot load should cross.

If you miss, it is because you pointed the gun incorrectly. Horizontal or vertical lead was wrong, or both.

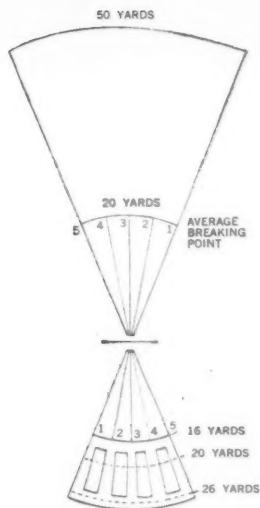
Some understanding of the shot string will give you the answer as to why few targets are lost by being led too far, and why it is probable that 50% of all targets scored as lost are the result of shooters' lead being short.

Even though you accidentally overlead, your shot string can still save the bird for you, providing your vertical lead is correct. If your horizontal lead is short, your shot string will never cross the target in its flight and you get a zero on the scoreboard.

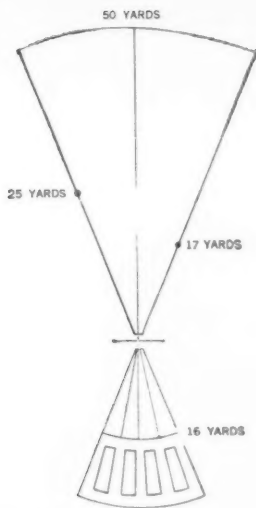
When you are making ink spots of



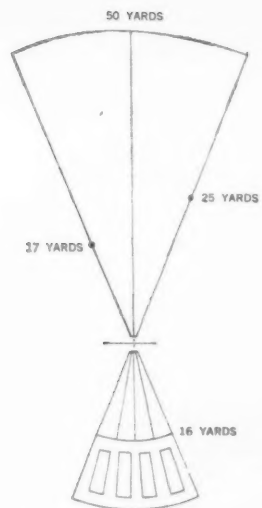
Profile view of straightaway target flight showing relationship of shooter to target from 16 and 26 yds., at average breaking points of 17, 20, and 25 yds. along target's course. Apex of flight is at approximately 31 yds.



Singles chart #1 shows 5 shooting positions with 5 angles of normal target flight equally spaced (11° apart). Lines have been extended from each straightaway target from each post and have been given the same number as the post



Doubles chart #1 shows the #1 target (right angle) at 17 yds. rise and the #5 target (left angle) at 25 yds. As doubles are thrown at known angles from a stationary trap, both targets are shown at 22° off center



Doubles chart #2 shows the #5 target (left angle) at 17 yds. rise, and the #1 target (right angle) at 25 yds.

your targets, you can be sure that your sight picture as well as your leads are correct. When you are just scratching or chipping your targets, you know only a few fringe pellets of your shot string are crossing the path of the target; and a correction in either your horizontal or vertical lead is necessary.

A chipped target counts just as much on the scoreboard as a pulverized target—but consistently well broken targets build confidence and assurance that the individual, his gun, and his sight picture are all co-ordinated.

Getting on target

Immediately following appearance of the target, the experienced shooter swings his gun in the direction the bird is moving and instantly computes how far ahead (horizontal), and how far above or below (vertical), he must align his barrel (take his sight picture) to break the target under prevailing wind conditions.

Horizontal lead requires very little explanation. The newest student will understand that to hit a target in flight, the shot charge must be placed in front of the objective—the target.

Vertical lead is not so well understood although it is obvious that at 20 yds. along its flight the target is still climbing, and that this must always be considered if the target is going to be scored as a hit.

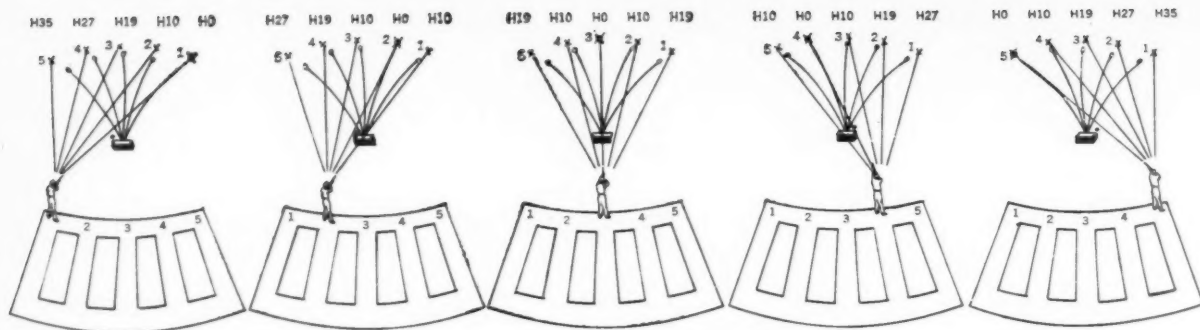
If this study had been made purely for shooting at 16-yd. targets, little would need be said about vertical leads. Because today's trap guns, with straight

LEADS IN NEW PERSPECTIVE

These electronically computed figures, derived from established factors, eliminate the mystery of what should be done differently at handicap distances than at 16 yds., to reduce the element of luck in placing the center of your pattern across the flight of target at the proper instant.

Place a straight-edge under any set of figures and you can quickly ascertain theoretical lead variations at the various yardages shown, on the same target, from any position. The change in leads between 16 yds. and 26 yds. is startling. Even more so are the figures at 35 yds. (used only at turkey shoots in some areas).

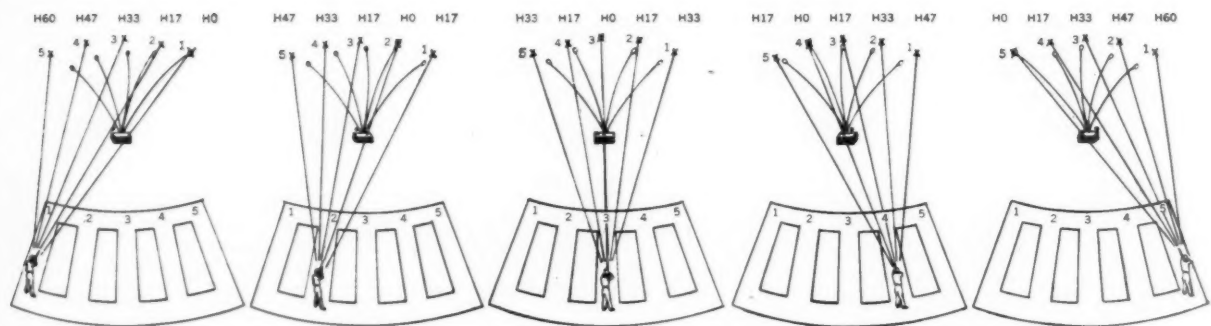
Shooter Position	Target Position	16 Yds.		20 Yds.		26 Yds.		35 Yds.	
		Hor. Lead (In.)	Vert. Lead (In.)	Hor. Lead (In.)	Vert. Lead (In.)	Hor. Lead (In.)	Vert. Lead (In.)	Hor. Lead (In.)	Vert. Lead (In.)
1	1	0	7	0	9	0	14	0	22
1	2	10	7	12	9	17	14	24	22
1	3	19	8	24	10	33	15	47	23
1	4	27	10	35	12	47	16	67	24
1	5	35	12	44	14	60	18	85	25
2	1	10	7	12	9	17	14	24	22
2	2	0	7	0	9	0	14	0	22
2	3	10	7	12	9	17	14	24	22
2	4	19	8	24	10	33	15	47	23
2	5	27	10	35	12	47	16	67	24
3	1	19	8	24	10	33	15	47	23
3	2	10	7	12	9	17	14	24	22
3	3	0	7	0	9	0	14	0	22
3	4	10	7	12	9	17	14	24	22
3	5	19	8	24	10	33	15	47	23
4	1	27	10	35	12	47	16	67	24
4	2	19	8	24	10	33	15	47	23
4	3	10	7	12	9	17	14	24	22
4	4	0	7	0	9	0	14	0	22
4	5	10	7	12	9	17	14	24	22
5	1	35	12	44	14	60	18	85	25
5	2	27	10	35	12	47	16	67	24
5	3	19	8	24	10	33	15	47	23
5	4	10	7	12	9	17	14	24	22
5	5	0	7	0	9	0	14	0	22



16-YD. SINGLES

Legend

- Hold muzzle at this point at call of 'pull'
- Target in flight
- X Sight picture (relationship of gun muzzle to target when trigger is pulled)
- H Horizontal lead in inches



26-YD. HANDICAP

Legend

- Hold muzzle at this point at call of 'pull'
- Target in flight
- X Sight picture (relationship of gun muzzle to target when trigger is pulled)
- H Horizontal lead in inches

LEADS FOR DOUBLES

With first target at 17 yds. rise, second target at 25 yds.

Shooting #1 target (right angle) first, #5 target (left angle) second.

Shooter Position	Target Position	Hor. Lead (In.)	Vert. Lead (In.)
1	1	0	10
1	5	36	7
2	1	9	10
2	5	28	4
3	1	18	11
3	5	20	1
4	1	27	12
4	5	10	-1
5	1	34	14
5	5	0	-1

Shooting #5 target (left angle) first, #1 target (right angle) second.

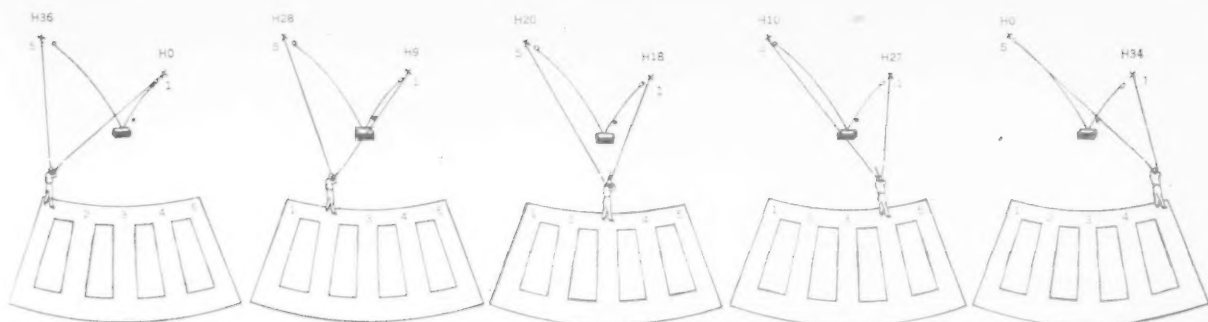
Shooter Position	Target Position	Hor. Lead (In.)	Vert. Lead (In.)
1	5	34	14
1	1	0	-1
2	5	27	12
2	1	10	-1
3	5	18	11
3	1	20	1
4	5	9	10
4	1	28	4
5	5	0	10
5	1	36	7

stocks, high combs, and ventilated ribs, plus the density and 30" spread of the shot pattern, fully compensate for the vertical leads shown by the computed figures as being necessary at 16 yds.

But these computed figures clearly indicate more vertical lead is required the farther you move from the trap.

From the 26-yd. firing point, the load has 30 ft. more to travel than from 16 yds., before it can cross the target's flight. In this greater distance the pattern spreads wider and loses density. There is no question about ample density remaining to break targets, but more know-how and more attention to sight picture are necessary to break targets consistently from the longer distance.

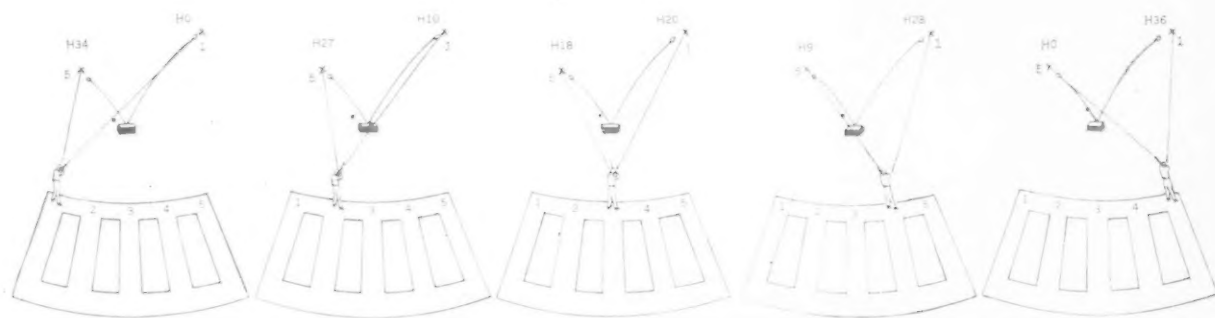
The figure tables showing theoretical vertical leads from 16, 20, 26, and 35 yds. are primarily useful for comparison. We include the 35-yd. figures only to dramatize the increased horizontal and vertical leads that are required the far-



DOUBLES, RIGHT FIRST

Legend

- Point muzzle to favor target you will take first
- ° Targets in flight
- X Ideal sight picture when right angle is taken first
- H Horizontal lead in inches



DOUBLES, LEFT FIRST

Legend

- Point muzzle to favor target you will take first
- ° Targets in flight
- X Ideal sight picture when left angle is taken first
- H Horizontal lead in inches

ther you stand from the trap.

In our line charts (see cuts) we indicate the increased horizontal leads required at 26 yds. as compared to 16 yds.; but we do not attempt to show in these line charts the difference in vertical leads, as the necessary change can be entirely compensated for in the individual sight picture.

Determining sight picture

Once you know where you want the gun barrel to be—how much of the front sight and barrel you want to see on any target, from any peg, at any yardage, and under whatever weather conditions prevail—you can regularly duplicate the performance and your scores will improve.

Your sight picture is the relationship of your gun muzzle to the target in flight, and it is improbable that any 2 shooters will have exactly the same sight picture.

One of the best professional shooters, who successfully coached many shooting students into high average scores, used the following example to illustrate his version of the proper sight picture for horizontal leads.

A 12-ga. gun muzzle is approximately 1" in diameter, and when in shooting position is about 36" from your eye. When you are standing at 16 yds., and therefore 35 or 36 yds. from the average target-breaking point, the gun muzzle covers about 12" of target flight. Thus, where a 24" lead is desirable, your sight-picture would be 2" (2 gun muzzles) ahead of the target—and keep swinging.

Height of the front sight on a standard trap gun is about $\frac{1}{8}$ ", and this sight is approximately 36" in front of the eye.

At 16 yds., your individual sight picture for vertical lead may be the tip of your front sight, or all of your front sight, while looking straight down the rib with your cheek tight against the

stock comb.

At handicap, to obtain additional vertical lead above the target, expand the sight picture by taking in more rib.

When you can regularly return to the 3 fractionally different sight pictures that will consistently break targets for you at 16 yds., handicap, and doubles, you have graduated into that group of seasoned shooters who can account for every target they lose, and can now concentrate on improving your average.

Keep head erect

With head erect, bring the gun up to where the stock touches your cheek and your eye lines up with your sight. Then slide your stock rearward and push your shoulder forward. The stock is always brought to the face—never the face to the stock.

When mounting the gun in this manner, your line of sight is always directly over the center of the gun barrel, and

the stock comes to the same position on your shoulder every time.

Lean or bend forward slightly with the left foot a short step in front of the right (if you are a right-handed shooter). The left hand is well out on the fore-end to support the barrel, but is not strained or stiff. Your feet never move after you get into position. Swing the body from the ankles and hips. Be relaxed. An easy position for the shooting stance is of the utmost importance.

Swing through the target

In trapshooting you do not aim at the target. You point or swing the muzzle of your gun through and ahead of the target, pull the trigger, and follow-through with your swing. This follow-through is as important in trapshooting as in golf.

Every target presents a different situation which tends to make trapshooting a fast game, appealing to folks who want action. Only through practice and experience can you know what you should do in the split second when you swing in the direction of the flying target and pull the trigger.

For consistently good scores the gun must fit the shooter. The main points of correct gun fit are: weight, balance, stock length, drop at heel and comb, thickness of stock at comb, pitch of barrels, and trigger pull.

American-made, standard-dimension trap guns with ventilated ribs are designed to fit the shooter of average build, and a slight change in stock length will adjust the gun to the non-average.

At the inception of the clay target sport, shooters used the same gun for game as for trap. However, in the evolution of trapshooting into a major sport, today's specially designed trap gun has gradually taken its present standard dimensions.

Using a gun built for trapshooting will raise a beginner's score materially because of its built-in target breaking qualities. Until an individual has shot thousands of targets and knows exactly what he wants, we recommend fitting the shooter to a standard gun, rather than immediately getting into special dimensions.

The 2 types of beginners are:

1. The already gun-wise hunters who come into trapshooting to enjoy year-round shooting sport and the fellowship possible only through gun club contacts. Such shooters can quickly graduate to the Expert Class as they have previously mastered the fundamentals of swing—lead and follow-through—in their field shooting experience.

2. The thousands of sports-minded men, women, and teen-agers who enjoy

participant games but have never had the opportunity to shoot in the field, and therefore have never experienced the thrill of shooting at flying targets with live ammunition.

There is no reason why most of these novice shooters cannot quickly become proficient enough at the traps to derive great enjoyment from the game with practice.

If your gun fits you, it will place the shot load where you look.

Adopt the style and position of the shooters you know who have reduced singles and doubles shooting to a science. The extreme handicap distances have not been mastered to the same degree. This field is wide open for you.

At the firing point concentrate on one thing only, to break the target. Avoid any attention to what your squad mates may be doing.

If you miss, forget it. Your competitors likely will also be missing an occasional target. Never give up, as most races are won by a single target margin.

Don't peek. Always keep your cheek tight on the gun stock, and break your targets one at a time. Don't count up your score until the event is finished.

The gun should be controlled (pointed) with the right hand, using the left hand only to support the barrel. Left-handed shooters, of course, will reverse this procedure.

After pulling the trigger, continue to swing through the target. If you stop your swing when you pull, or before, it is a certain miss.

New trapshooters, with rifle shooting experience, are prone to take a long aim at the target, as their previous training is to try for bullseyes. In trapshooting the accepted best method is to swing, point, and pull. When you ride the target, you handicap yourself just as surely as though you were standing several yards farther back.

Observe wind conditions. A head wind causes rising birds and calls for more attention to vertical leads. A wind at your back causes targets to dip and duck. A left-quartering wind causes the target to rise, and the right angle to lay low. This is when know-how, experience, and a gun that fits you can save your score.

Smooth up your stance, your gun positioning, and your swing, by dry-firing in front of a full-length mirror.

The one best way to improve your score is to take your gun in hand and participate in the events at a gun club.

A good shot swings faster than the bird is traveling and pulls the trigger at the instant of passing the target. He has mastered his swing and follow-through. He has learned his trapshooting fundamentals.

The biggest challenge remaining in the shooting game today for many top-flight shooters is the possibility of improving their handicap scores, and the only possibility of anything in this study helping the seasoned trapshooter to break a few more targets might be in the comparison of computed leads at the handicap distances.

Shooting doubles

Shooting doubles is twice the fun of shooting singles.

For doubles, the trap is locked to throw known angles, with the right-angle straightaway from peg #1, and the left-angle straightaway from peg #5. Thus each target of the pair is 22° right or left of the center post.

There are 2 schools of thought as to which target should be taken first. One group always goes for the same angle with the first shot, but the majority of consistently good doubles shooters take the straightaway target first—the right angle from pegs #1 and #2, and the left angle from pegs #4 and #5.

Because of the known angle, all good doubles shots plan to shoot the first target several yards ahead of the spot where they generally break their single targets. The idea, of course, is to enable them to complete their swing across to the second bird while it is still in effective range for their shot pattern. As an arbitrary figure for charting purposes, we show the first bird as being broken at 17 yds. in flight, and the second at 25 yds.

We have drawn 10 doubles charts, with 5 showing right angles for the first shot, and 5 showing left angles for the first shot. Thus any shooter who may try to compare his own system at doubles with the charts can pick out the 5 that suit his game.

We fully realize that this material is going to create discussion, even controversy, for trapshooters are noted for their independence of thought. Also no 2 shooters have exactly the same reactions or timing, and varying wind conditions will always call for alterations in the sight picture.

Nevertheless, we sincerely believe that trapshooting novices who are asking for reference material can pick up some pointers that will help them break targets, from the computed leads that are shown here for the first time.

We have not tried to cover the entire subject of trapshooting here, but have stuck to the fundamentals of improving scores through a better understanding of what is involved in hitting clay targets in flight. ■

(Prepared from material developed by Remington Arms Co.)





Patch and Ball Fit

Helpful suggestions to aid you in getting more accurate results with your muzzle-loading rifle

By W. D. Bell

THE accuracy of muzzle-loaders is based on a paradox: an undersized ball is spun by rifling it never touches.

The secret, of course, lies in the cloth patch. It transfers to the ball the grip of the rifling, hence the projectile emerges with a spin and, other conditions being correct, will make groups at 50 and 100 yds. almost as small as those from modern hunting weapons.

However, what with the wide variations in muzzle-loaders, many shooters have a desperate time coaxing cantankerous weapons to live up to the tales Grandpa told about them.

Functions of the patch

The patch has several duties to perform, some of which are almost contradictory. It permits loading from the muzzle, being with its enclosed ball a sliding fit in the bore. It fills the grooves, acts as an obturator or gas check, transfers spin from lands to projectile, and cleans the barrel every time it is loaded. We have in this case a sort of composite bullet with an expendable part, the patch, which parts company with the ball at the muzzle.

Since the patch has so many functions, some compromise must be reached between loadability and complete bore sealing. Accuracy is greatly impaired when a ball has to be pounded all the way down to the powder, but still worse results derive from a loose-fitting combination. Achievement of a successful compromise in patch-ball fit is the most difficult detail in shooting muzzle-loaders.

For several centuries, such cloths as linen, ticking, canvas, denim, flannelette, and others have been used more or less successfully. Buckskin was allegedly used in early days, but the dismal failure of some experiments with thin leather raises doubts about its suitability, in my mind.

The material as such may well be of less importance than its thickness and strength. Any cloth which will resist the friction of 2 trips through the bore should theoretically be suitable, if it also grips the ball well and isn't so

porous that gas blows through it. Perhaps the main reason for such a wide choice of materials is to permit selecting the proper patch thickness and strength from a number of easily available types of cloth.

Fitting the patch and ball

In the breech-loader, bullets will shoot accurately if of groove diameter or very slightly over. In the muzzle-loader, however, the composite of patch and ball must be many thousandths of an inch greater than groove diameter. No muzzle-loader the writer has ever seen would shoot well unless the patch was under considerable compression, not merely where it met the lands, but also in the bottom of each groove. A great deal of cloth must be packed into each groove; not merely the groove's depth in thickness of cloth. Naturally, this can't be carried too far, or a hydraulic press would be needed to load the rifle. Groove depth also must be considered in combination with ball diameter.

The margin in patch-ball fit between proper and utterly useless is often very narrow, yet this subject is treated rather perfunctorily in much of the existing muzzle-loading literature. Some writers are dogmatic, recommending for all a ball size and patch thickness they have found accurate in a particular weapon. Some evade the issue by stating that each muzzle-loader is a law unto itself.

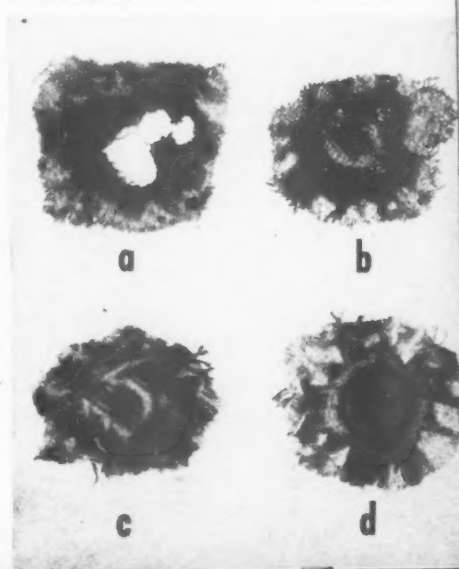
The latter statement is probably nearer the truth; the old rifles vary so much that no really universal loading data can exist. However, through a systematic classification of rifling types it might be possible to set up rules of thumb for the loading of each.

Various writers have suggested patch and ball formulae. N. H. Roberts prescribes linen or broadcloth with a ball of bore diameter minus one thickness of patch cloth. Cowher uses bore diameter balls and 8-oz. canvas. Keith says the ball should be big enough to require a little thumb pressure when pushed into the bore without a patch. Coble shoots balls from .001"-.002" under bore diameter, to about that much over, with a heavy ticking patch. These data are from experienced shooters, who most certainly have got excel-



Fig. 1: Damage caused by pushing unfired ticking patches through a .38 'Kentucky' barrel with rough lands and a sharp muzzle: (a) Frayed holes were caused by passage over rough lands; (b) Annular cut was made in starting tightly-fitting ball into sharp muzzle

Fig. 2: Damage to patches caused by firing .570" round ball in a barrel of .577" bore diameter and .607" groove diameter tapering to .593" at the muzzle: (a) Flannelette, dry—much too thin to seal bore; whole center burned out; on fire when recovered. (b) Flannelette, wet with spit—much too thin to seal bore; holes burnt through by gas blow-by, only moisture preventing center burning out. (c) .017" pillow ticking, wet with spit—better bore seal than flannelette; no burning but overall blackening indicating some gas escape. (d) .020" 8 oz. canvas, wet with spit—loaded stiffly, fit tightly, and sealed well. With patches of this thickness, impressions of cloth are made in lead ball even on bottom of grooves, yet distortion is not severe if using properly fitting starters and ramrods



W. D. BELL, a high school teacher in Waterford, Ontario, makes and shoots muzzle-loading rifles.

lent results from them in their own weapons.

Some others fully as experienced suggest formulae for all types of rifling, stating that patch thickness depends on groove depth. I believe that both cloth thickness and ball diameter must be adjusted to both depth and width of grooves. Formulae most likely to be satisfactory for each type of barrel are given below. These should be considered as points of departure, from which to arrive at the best of several fairly good loads, instead of blindly trying dozens before stumbling on an accurate one.

Common types of rifling

Modern rifles vary in groove width and in number of grooves. So do the old-timers, but more so, and still more do they vary in groove depth. Round-ball rifling most likely to be encountered may be classified under 4 reasonably common varieties, all with square-cut lands and grooves. These are:

- 1) wide land, narrow shallow groove;
- 2) wide land, narrow deep groove;
- 3) narrow land, wide shallow groove;
- 4) narrow land, wide deep groove.

In any of these, rifling twist is not likely to be faster than about 1 turn in 30", nor slower than 1 turn in 70" or 80". Twist partially determines powder charges but, so far as the writer knows, requires no special consideration regarding patches. The unfortunate soul with an extra-slow twist barrel will be kept poor buying powder in order to develop enough velocity for a proper spin.

Grooves will vary in number from perhaps 4, more likely 5, up to 9 or 10, with 6, 7, and 8 being most common. Wide lands are 2 to 3 times the width of the grooves, which are then mere 'scratches', since the bore is almost all land. Narrow lands are sometimes the same width as the grooves; sometimes only about half as wide. In this case, a much greater percentage of the bore is of groove diameter. Suggested patching formulae are given below.

Wide lands, narrow shallow grooves.

This style of rifling is fairly common in various originally inexpensive rifles. Getting better than reasonable deer-hunting accuracy may be found most difficult. Roberts' formula is probably most suitable, using a patch of .005" or so linen, as other material that thin may not be strong enough. The ball should be approximately one patch thickness under bore diameter. Each groove may be as little as .002" in depth, hence the slightest wear will seriously affect accuracy.

Wide lands, narrow deep grooves.

A very thick patch is needed to get

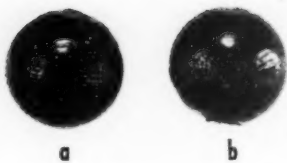


Fig. 3: Two .570" balls driven through .577"-.593" bore-and-groove diameter barrel: (a) Flannelette patch—too thin, lands only gripped ball, cloth not under compression in grooves; note gaps between cloth marks. (b) 8-oz. canvas—gives better grip, cloth under compression in grooves as well as between ball and lands; note continuous cloth marks, light where ball and patch touched grooves and heavy where they touched lands

enough cloth into the grooves, along with a ball big enough to drive it there. Since each groove may be all of .012"-.015" deep, a lot of cloth is required to prevent blow-by, yet with such a vast area of lands there's no place for most of the patch cloth to go. Compression by the lands is tremendous, deep cloth marks are made in the lead, and loading is almost impossible unless a short starter and mallet are used to seat the ball into the muzzle. A long starter will be needed to get the ball down far enough for the ramrod to be safely employed.

Some such material as 8- or even 10-oz. canvas should be tried with a ball .005", .008", or .01" under bore diameter. These weights of canvas are .020"-.025" thick, and are strong enough to be loaded very 'tightly' without tearing. Accuracy may be good, but narrow grooves foul rapidly, while loading can be so stiff that a uniform pressure of the ball on the powder may be most difficult to maintain from shot to shot.

Narrow lands, wide shallow grooves.

In this case at least half the barrel is of groove diameter, permitting a larger ball to be loaded, still using a thin patch of about .007". Since groove depth is only .005" or less, we still cannot easily load a full bore diameter ball; there just isn't enough space for

all that cloth to be pushed into. Ball size should be .002"-.005" under bore diameter, if one that big can be loaded, but the best remedy is recutting shallow-groove bores to make Type 2 or Type 4 barrels out of them. This will soon be needed in any case because wear will rapidly ruin their accuracy.

Narrow lands, wide deep grooves.

The muzzle-loader with deep grooves equal in width to the lands seems to be the kind which most consistently wins matches. Tight-grouping rifles described in the literature and barrels offered for sale by competent smiths are from .007" to .01" or more deep (each groove). Lands are about equal to groove width, or slightly narrower. A ball of practically bore diameter, or even a little over, can be loaded inside a thick patch which ensures a good grip and complete gas sealing. The formulae of Keith, Cowher, and Coble are correctly used here. Try a bore-diameter ball, with a patch of ticking or canvas about twice as thick as the depth of each groove. Loading will be stiff at the muzzle, but much easier once the ball is a few inches down the barrel, past the choke, and well engraved by the lands. It is possible that Type 4 barrels are somewhat less cantankerous about patch thickness and ball size, but the basic requisites of groove sealing and grip on the rifling still must be met if accuracy is expected.

It might be appropriate at this point to anticipate an obvious suggestion: "Why not simply use a loose combination, easy to load, depending on upsetage of the ball to drive the patch into the grooves?"

This would be fine if it worked, and it might in some cases, but several risks would be run.

First, before upsetage could occur, gas would blow by the patch in each groove, burning holes in it. A smouldering patch on the ground is evidence of blow-by.

Second, does a round ball upset very much in any case? After all, it presents much the same sort of surface to the

Symptoms	Causes	Cures
1. Black streaks and charred holes where patch lay in grooves	Patch too thin. Gas blow-by in grooves burns cloth	Use a thicker patch. Ball diameter may be increased if much under bore diameter
2. Frayed holes worn through where cloth touched lands	Rough, rusted lands tear cloth	Try a patch of stronger material. Fresh-out or recut bore if possible
3. Slits in cloth along contact of patch and land corners	Lands too sharp. Patch is cut while loading	Scrub bore with steel wool, or lap. Try stronger cloth, or slightly thinner
4. Annular slit, cut part way round where ball lay on patch when being loaded	Muzzle too sharp. Cuts patch when ball is started into bore	Chamfer muzzle. Try a stronger cloth
5. Black circle in center where ball lay, some soiling from powder fouling, minimum of burnt streaks at groove marks, cloth everywhere intact	Good obturation, bore good, patch can't wear or burn through	None needed. Rifle should shoot accurately with correct powder charge

powder as does a boattail bullet, which certainly doesn't expand. In fact, the latter would, if weren't strongly jacketed, be crushed by the wedging action of the powder gas between its tail and the bore. Some such conditions obtain with the round ball, preventing any marked upset. Hence round balls should be big enough to make their patches fill the grooves before firing.

Suggestions for imperfect bores

With old guns in such short supply, many shooters of today are obliged to make do with weapons whose bores show the effects of age and neglect. Such barrels ought to be 'freshed out', or rebored and re-rifled.

Nevertheless, if no whole land corners or top surfaces are eaten away, with no deep rust rings completely encircling the bore, it might still shoot in spite of the pits. Rough spots, rust rings, and deep pits will either strip the patch from the ball or wear right through it. If a thicker and stronger cloth can be loaded without undue pounding, the evil day of recutting may be postponed. The writer's .38 Kentucky has been freshed out, making the grooves deep and sharp, but so far he has not recut the lands. They are a mass of pits, which wear completely through patches of drilling or ticking and cause groups of 5" to 6" at 50 yds. Eight-ounce canvas, however, survives in fairly good shape. Its use cuts the above group sizes in half, and makes the old wreck deadly on squirrels at tree-top ranges.

Testing loading data

Various types of cloth and ball sizes should be assembled, to be shot from the bench when fitting a rifle to its proper load. A uniform testing procedure is essential, varying only one component at a time, so that factors which contribute to accuracy are brought together, while those which detract are rejected.

Start with a powder charge heavy enough to make the rifle 'crack' (but not wide open). This will be about one-third of the ball's weight. Fire 3-shot groups of each possible combination at a large target at 50 yds. (patch faults are less likely to show up clearly at 25) until a tight-grouping load is discovered. This should then be verified by shooting several 5- or 10-shot groups, preferably cleaning between shots.

After each load has been tested, a 'post-mortem' should be conducted on the fired patches. Most of these will be found 5 or 10 yds. in front of the bench, and each has a story to tell. The table at left deals with most of the 'symptoms' likely to be encountered and 'cures' found effective by the writer. ■

FAMOUS FIREARMS

The Kentucky Rifle



THE Kentucky rifle was a distinctly American gun, and in fact it is sometimes called the American rifle, especially by Europeans. Because it was developed in Pennsylvania by the German and Swiss colonists who settled there in some numbers after 1710, it has also frequently been called the Pennsylvania rifle. It received the name of Kentucky rifle, by which it is most commonly known today, because it was a very popular arm with the men who explored and settled the area that later became the states of Kentucky and Tennessee.

The Pennsylvania colonists who developed this rifle came from a part of Europe where rifles were a common weapon for hunters and gamekeepers. They brought this gun with them. It was a short rifle with a large bore and usually a patch box in the stock with sliding wooden lid. In this they kept the greased patches to be wrapped around the ball in loading, thus obtaining the tight fit necessary to take the rifling.

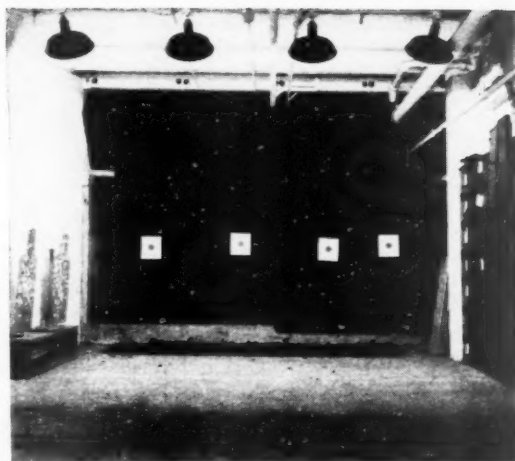
The conditions of the New World dictated changes in this design. The barrel was lengthened for better accuracy at long ranges. The caliber was reduced to conserve both lead and powder which were frequently in short supply. The patch box acquired a hinged cover of brass to replace the sliding wooden lid, a graceful drop gradually developed in the butt, and a new series of inlays and carved designs came into being. When all these changes had taken place there appeared a long, slender, and graceful rifle which at the same time was supremely accurate.

The evolution of the Kentucky rifle was slow. The first rifles made in Pennsylvania resembled the European antecedents. The earliest alteration was the lengthening of the barrel. Then the introduction of the brass patch box cover and a gradual reduction in caliber. By 1750 it had become a new type. But still its lines were distinctly European. The butt was quite straight and thick. The graceful drop in the butt came towards the end of the 18th century, and at the same time the practice in inlaying decorative plates of brass, silver, or pewter also became popular, reaching its height about the turn of the century. This was the Kentucky rifle at the zenith of its development. Thereafter a gradual decline set in. The rifle remained accurate, but architecture and decoration deteriorated.

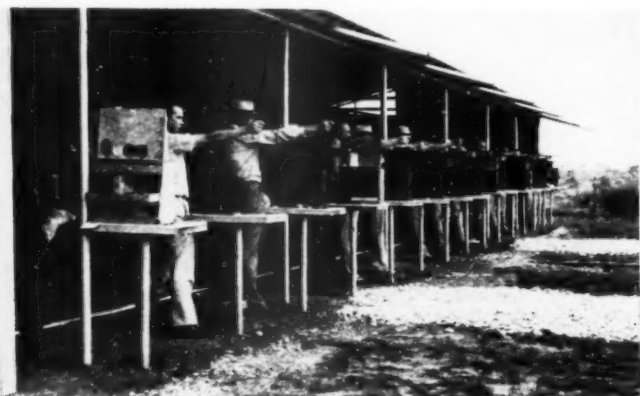
The Kentucky rifle was primarily a civilian arm, designed for hunting and protection against Indians in forest fighting along the frontiers. It was not designed for military use in the formal warfare of its day, but nevertheless it did make its impact felt in the hands of light infantry, sharpshooters, and other special troops. The Battle of Kings Mountain is unique as a rifle victory in the Revolution, and, in conjunction with magnificent artillery action, the rifle helped win the Battle of New Orleans in the War of 1812.—HAROLD L. PETERSON

A Place to Shoot

EVERYONE is invited to submit material on ranges with facilities for handling numbers of shooters. A good sharp 4" x 5" (or larger) glossy photograph is essential. If necessary to have a professional photo made, we will pay \$10 for one that is acceptable. Photo must be accompanied by complete detailed information on ranges and facilities similar to that which appears below.

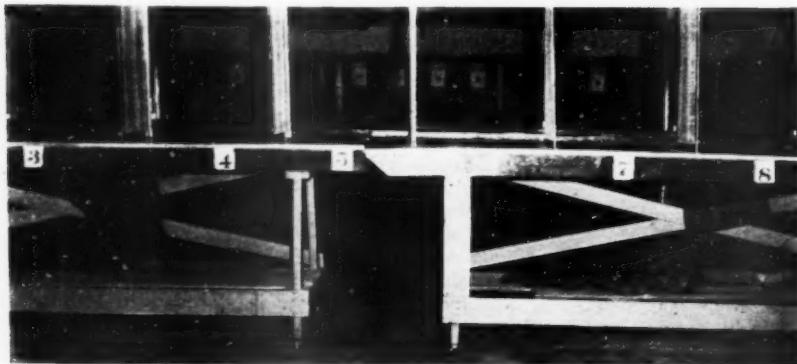


ASTORIA, OREG., in basement of Oregon National Guard Armory. Arthur L. Chan, 1228 Duane St., Astoria. **Indoor range**, 4 firing points to 50 ft. for both rifle and pistol. Range open to public



ALICE, TEX., 1½ miles south on U. S. #281 at the County Fair Grounds. Alice Rifle & Pistol Club, Inc. W. T. Johnston, Secretary, P. O. Box 581, Alice. **Pistol range**, 24 covered and paved firing points to 50 yds. **High power range**, 13 firing points to 200 yds. **Indoor range**, 15 firing points at 50 ft. for cal. .22 firing only. **Trap and skeet fields** with automatic traps, and **running deer target** (100 yds.). Guests must be accompanied by a Club member

TEMPERANCE, MICH., 2 miles west on West Temperance Rd. Southern Michigan Sportsmen's Club. Paul R. Whiting, 2365 West Temperance Rd., Temperance. **Rifle range**, 26 firing points to 100 yds. for both smallbore and high power rifles and 5 firing points to 200 yds. **Indoor range**, 8 firing points at 50 ft. with bullet-stops equipped to handle up to cal. .45 ammunition. **Trap and skeet field** also available. Junior rifle instruction every Saturday morning



BUFFALO, N. Y., 1105 Genesee St., Buffalo. The Buffalo Revolver & Rifle Club, Inc. Harold Dudley, Pistol Director, 110 Potomac Ave., Buffalo '13. **Indoor range**, 10 firing points at 50 ft. for both rifle and pistol. Electrically timed and operated turning targets for pistol. Smallbore practice on Monday and Friday evenings, while pistol practice is conducted Tuesdays, Thursdays, and Saturdays. Junior smallbore firing every Sunday morning and ladies pistol practice every Wednesday

Converts Through Competition

By James E. Bie

A shooting match offers an excellent opportunity for winning friends for the sport



Civilian and military shooters fired together in the Winnequah Gun Club's 1000-yd. match at its range near Lodi, Wis., 25 miles north of Madison

IF you want to win new friends and converts to game and target shooting, you'll have a good opportunity the next time you take part in a rifle match.

When I was in the Army, like millions of others I sweated through indoctrination in various small arms. After several tries I qualified as Sharpshooter, but hitting that target at 300 yds. was a tough job.

Interesting news item

In spite of this I have always had a more than casual interest in guns. For that reason I was fascinated by a small item in the newspaper:

"The Winnequah Gun Club will sponsor a 1000-yd. shoot for high-powered rifles again this summer at its range near Lodi."

There were half a dozen facts in that one short sentence which caught my attention. Lodi is a small town (population 1416) in south central

Wisconsin about 25 miles north of Madison. I wondered why I hadn't heard much about a rifle range there or about the Winnequah Gun Club.

'High-powered rifles' is a most intriguing phrase in itself. It conjures up all sorts of pictures of wild animals, rugged mountains, and adventure. But the thing that really stopped me was '1000 yds.' With the hard time I had hitting targets at less than one-third that distance, I decided then and there, "This I must see."

The proprietor of a local gun shop gave me directions for finding the range. When your shooting distance is more than half a mile, you locate your facilities a healthy drive away from congested areas. The winding dirt road, which led off the side road, which branched off the highway, suddenly brought me to a small parking area. A quick glance around told me there was more than Lodi competing today. In addition to Wisconsin cars I saw

license plates from Michigan, Minnesota, Illinois, Iowa, Oklahoma, and Kansas; and military vehicles assigned to the Fifth Army and the United States Army in Europe.

The match ran all day Saturday and Sunday, and I found myself on hand for everything that happened both days. Bill Brunzell, secretary of the club, was most cooperative. Although he was confined to the statistical office (tent, that is) most of the time, he made sure I got the full story of the rifle match. From the bare-backed, wet-browed men in the target pits, to the referee and communications officer on the line, club members worked to keep the match running smoothly and as swiftly as possible.

Dick Taubert, a former Marine officer and president of a steel supply company in Madison, is president of the Winnequah Club. "This group is composed of doctors, merchants, shop and office workers, and men in every



Even from half the 1000-yd. distance the targets look postage stamp size. The "off-limits" wooded hill behind the targets provides safe shooting on the club's 217 acres



The lull before the storm—the pit crew relaxes in the butts before the start of the match. Temperatures rose to nearly 100° as the day wore on



With all the comforts of home, plus sunshine and fresh air, these ladies caught up with sewing and embroidery while others of the family shot

other kind of occupation. They come from all over Wisconsin, and parts of Illinois, Minnesota, and Iowa," said Taubert. "As in any organization, there are never enough members available for all the chores to be done, and we have to rely on the repeated generous efforts of a hard core of loyal workers—but I've never associated with a better and more congenial bunch of men than you will find in this gun club."

Shooters competing

Taubert explained that work on the match began about 6 weeks beforehand. Invitations were mailed to more than 300 shooters, and notices sent to rifle clubs and sportsmen's publications. Seventy-seven of the top riflemen in the Midwest registered and participated. Many of them used the Lodi match, which was approved by the National Rifle Association, to sharpen up for the National Matches at Camp Perry, Ohio.

Women are a part of the picture too, I learned. Many of the shooters brought wives and children along. A lady from Iowa sat under a maple tree, listening to a radio, working on her embroidery, and talking with her mother who also made the trip. She said, "During the summer we're gone nearly every week end. There aren't many matches that we miss." With her lunch basket and thermos bottle close at hand, she probably enjoyed that moment more than her husband who was just beginning to sweat it out on the firing line.

Another lady relaxed in the front seat of the family station wagon, reading. Her husband is an Oklahoma

petroleum engineer. "We were vacationing in Michigan," she said, "and heard about this match at Lodi. So we decided to stop here on our way home."

For the Army teams, life went on as usual. Although the riflemen carried out a routine far different than you would find in a permanent base, the customary discipline and efficiency were evident. Tents, lean-tos, cooking arrangements, latrines — everything seemed to be in regulation shape. Traveling with their own armorer gave the Fifth Army team everything it needed to concentrate on top marksmanship performance.

While waiting their turn on the line, the men took care of clothing repairs and studies. The proficiency pay exams, which mean extra money in the pocket of qualified men, were coming up soon, and discussions of land mine warfare and other military topics were held under the trees with the side of the shop truck as a backdrop.

Maj. Thomas H. Netherton of Ft. Riley, Kans., is captain of the Fifth Army team. He pointed out that rifle competition is not considered recreation or special service entertainment, but an essential part of training. "There aren't many opportunities to use match-type rifles in combat," he acknowledged, "but there are many valuable lessons learned about proper use and care of equipment." And, he added with emphasis, "The pride and determination which a good team can generate has a healthy effect on the whole Army marksmanship program."

High-powered rifle shooting seems to be a man's game. Only one lady shooter appeared on the scene, and she

insisted she came along merely as a spectator. Nancy Franz, a junior at the University of Wisconsin—Milwaukee, is an active member of the University's rifle team and placed fourth in national women's collegiate competition. Ron Hinz of Milwaukee, a member of the team which represented Wisconsin in the National Matches at Camp Perry, made the mistake of persuading Nancy to try her skill on the 1000-yd. range.

"The first shot knocked my sunglasses off," Nancy said, "but after that I did a little better." (The 'little better' turned out to be about 20 points more than Hinz, who ran into some embarrassing difficulty with his sight adjustment.)

217 acres, ideally suited

The range comprises 217 acres of land "ideally suited for growing sand-burs," according to club president Taubert. The fairly level land between the firing line and the targets alternates between sand and grass. On hot days the shimmering heat waves rising from the sand can lure some riflemen into shooting at mirages instead of the actual targets. It was surprising to an uninformed spectator to learn that even a slight breeze blowing across the range could push a bullet far off its course.

"The future looks good for the Winnequah Club," Taubert told me. "With the continuing cooperation of our members and friends, this is the third successful match we've held this year. We work hard and don't get rich playing host, but the registration fee is calculated to cover costs and yield some income for range upkeep and improvements." Club members hope



Adding an international touch to the event was the wife of Sgt. Leslie E. Wright of Ft. Riley, Kans. She was formerly a resident of Hokkaido, Japan



The man in charge of keeping the weapons in top shape for the Fifth Army team is M/Sgt. Harry E. Robison, shown working in his gunshop truck



Repairing shoes is a task even an officer must handle when assigned to rifle team duty. Lt. Francis G. Cash of Mayfield, Ky., won third place for his Fifth Army team with 197 points

to finance future construction of a store-room and clubhouse at the range.

Long-distance rifle matches and other shooting events probably never will become the greatest spectator attractions in the world, but don't overlook them as a means of winning new friends for the sport and new members for your club. If you have acquaintances with latent interest in shooting, invite them along the next time you go shooting and give them a few words of advice that will make the day more pleasant.

At Lodi, for instance, the terrain and weather required a sturdy pair of shoes or boots, and a cap to protect the head and eyes from the glaring sun. Be sure your friend brings along a good pair of binoculars or a scope. Even nearby action takes on added excitement when viewed enlarged through binoculars.

If your guest is really a novice, be sure to instruct him in the rules of gun safety and courtesy. Tell him why

he should stay well back from the firing line; when he should keep quiet; and how to handle the guns he wants to look at *after* asking the owner's permission. These things are second nature to the experienced shooter, but the uninitiated visitor may never know if you don't tell him.

If your guest happens to be a camera fan, caution him on several matters. With the roar and activity raging around him, a shooter probably will never notice a photographer close by. If he is wearing ear plugs, he will certainly not be disturbed by the shutter click. But the fact remains that some people don't want their picture taken at any time, and especially not while trying to focus their attention on a postage-stamp spot more than a half mile away. Most riflemen are happy to pose or to be photographed in action—and they may want copies of the pictures to see if they can detect any

flaws in their form. But ask their permission.

Some cameramen use flash bulbs to fill in the shadows which often turn up in outdoor photography. But remember this—even if the shooters forget—a person looking directly at the glare of a flash bulb can be so dazzled he won't be able to see his rifle, much less the target, next time he shoots.

Spread the word of shooting

As an outsider, my advice to you is this: Don't keep this sport to yourself. Spread the word to your friends. And don't overlook the newspapers, radio stations, and local television programs when your club plans its next event. The publicity probably won't add one point to your score, but it might just influence several good men and women to take an active interest in shooting, and make your club a better and more productive organization. ■



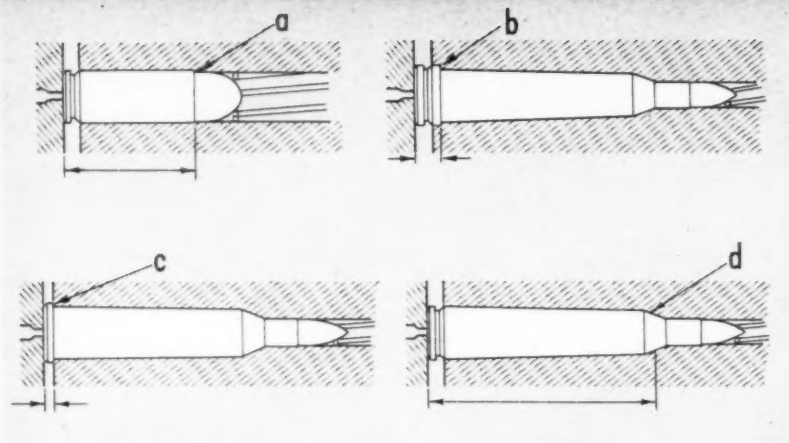
Training goes on even when troops are away from base firing in a match. Lt. Richard O. Roemer of Ft. Carson, Colo., explains some of the fine points of land mine warfare to the Fifth Army team



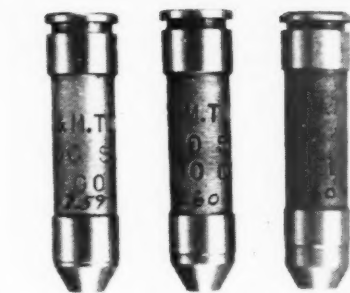
Not all time off range was taken up with training and housekeeping. Some soldiers did their waiting in a prone position, too



Maj. Thomas H. Netherton, captain of the Fifth Army team, followed closely the scores posted by William R. Brunzell, Jr., of Madison, secretary of the host club



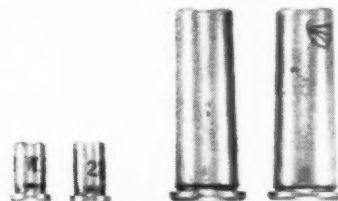
1 Headspace is measured from face of closed bolt or breech to seating or stopping point in chamber located at one of 4 positions shown (see lettered arrows): (a) rimless or semi-rimless cases with little or no body taper seat on case mouth; (b) belted cases seat on front face of belt; (c) rimmed (flanged) and some semi-rimless cases seat on rear face of chamber; (d) rimless bottlenecked cases seat on case shoulder and headspace is measured from arbitrary datum point on shoulder. Headspace distance is indicated by arrows below each sketch



2 Set of solid gauges for determining relative headspace of rifles chambered for rimless and most semi-rimless bottlenecked cartridges includes Go, No-Go, and Field gauges. Headspace gauges are used by gun manufacturers and gunsmiths when chambering and fitting barrels

BEGINNER'S DIGEST

HEADSPACE AND ITS MEASUREMENT



3 Solid gauges for determining relative headspace of arms chambered for rimmed (flanged) and some semi-rimless cartridges. Set of Go and No-Go gauges at left is for rimfire (.22 WMR). Set of Go and No-Go gauges at right is for center-fire (.303 British)

HHEADSPACE is the distance between the face of the closed bolt or breech to the seating point that stops forward movement of the cartridge in the chamber. In conventional firearms, and depending on the type of cartridge, the seating point is at one of 4 positions as shown in Fig. 1.

Headspace tolerances are established by gun manufacturers in cooperation with ammunition manufacturers. In the United States their efforts are coordinated so that U. S.-made ammunition of a given caliber will function in U. S.-made guns of that caliber. This is accomplished by standardizing minimum chamber and maximum cartridge dimensions.

Gauges used

Headspace is measured with accurately ground, hardened steel headspace, or heading, gauges made in both adjustable and solid styles. Their use demands a

definite technique lest erroneous readings result.

Adjustable headspace gauges are used in the same manner as solid gauges, but permit somewhat more precise measurement. They are used in conjunction with a micrometer caliper. Most headspace gauges are of solid 'button' or 'plug' type and are customarily furnished in sets of a 'Go' and a 'No-Go' gauge, sometimes with an additional 'Field' gauge. Intermediate gauges between the Go and No-Go gauges are also available where more precise measurement is required.

The gun action should close on the Go gauge and should not close on the No-Go gauge, assuming that the gun is new or has been subjected only to moderate usage. The extremes in headspace indicated by these 2 gauges represent the normal headspace tolerance. After the arm has been much used, normal wear of operating parts can ef-

fect an increase in headspace until the action will close on the No-Go gauge. This does not necessarily indicate that the arm is unsafe. However, corrective action is indicated when the action will close on the Field gauge.

Manufacturers of commercial arms, as well as arsenals responsible for manufacture and repair of military arms, often utilize precisely made field-test bolts in conjunction with headspace gauges to determine if the chamber, bolt, locking lug seats in the receiver, or all 3, have been manufactured within tolerances or have become worn to the point of unserviceability.

Insufficient headspace

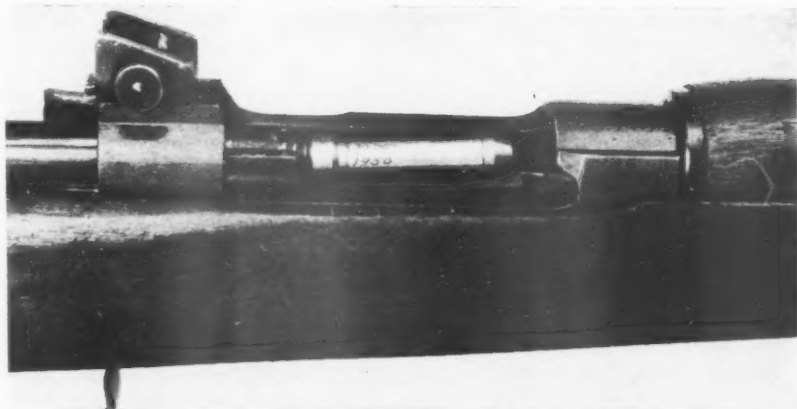
Insufficient headspace may prevent closing the action completely on the factory cartridge or require undue force to close it. Excessive chamber pressure can result if the cartridge is forced into
(Text continued on page 52)



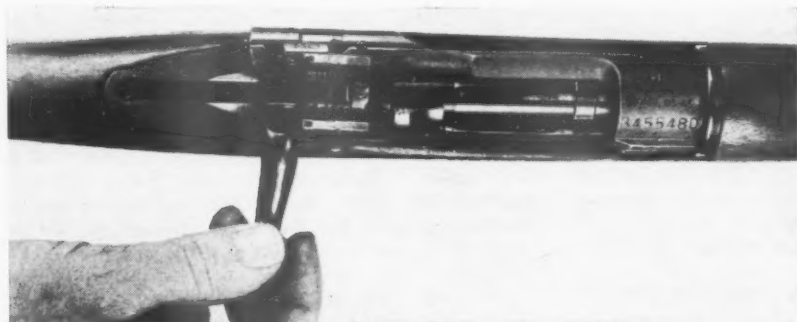




4 Adjustable gauge at left is for measuring headspace in rifles chambered for belted cartridges. Adjusted by an internal screw, this gauge consists of an inner plunger friction fitted to an outer sleeve. The gauge is first expanded by the screw which is then backed off from contact with the plunger. The gauge is then placed in the gun chamber and the action closed to compress it. Over-all length of gauge is measured with micrometer caliper. Body length of gauge forward of belt is then subtracted from micrometer reading to determine headspace of arm. This gauge, when pre-set, can also be used as solid gauge. Flanged gauge on right is for determining headspace in 12-ga. shotgun. It has a screw-adjusted internal plunger. Plunger protrusion is adjusted until gun action will just close on expanded gauge. Headspace of arm is then determined as with adjustable rifle gauge. This gauge, when pre-set, can also be used as solid gauge

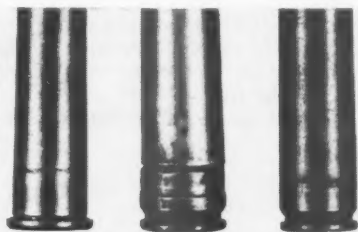


6 When extractor is not removed beforehand, head of gauge should be introduced under extractor hook prior to insertion of gauge into chamber. Some gauges made for factory or military use have extractor-clearance cut on side

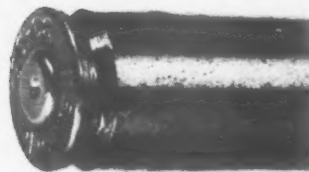


7 Light finger pressure only should be applied when attempting to close bolt or action on gauge. Use of undue force is certain to damage gauge or gun, and will falsify the reading. Headspace tolerances in modern arms are very small. For .30-'06 cartridge tolerance is only .006", or less than 2 thicknesses of paper used for RIFLEMAN cover

8 (l.-r.) Incipient, complete, or partial separation of cases forward of the head is symptomatic of possible excessive headspace. Gauge check of arm is indicated when this condition is noted

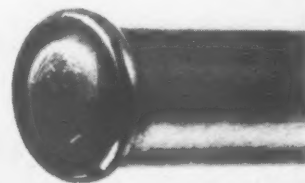


5 Full-length case gauges, available for several popular rimless rifle cartridges of bottlenecked-type, permit rapid checking of over-all case length as well as relative headspace of rifle in which case was fired. Upper and lower steps on head of gauge represent headspace limits. In use, fired case is inserted into gauge until its shoulder contacts shoulder in die. If head of case extends beyond upper step, headspace of rifle is excessive. If head of case lies below lower step, headspace is less than minimum. If neck of case extends beyond end of gauge, neck trimming is indicated. Excessive shortening of case body due to improperly made full-length case sizing die or shellholder can be detected with full-length case gauge by checking case before and after full-length sizing



9 Excessive headspace may exist when fired primers extend beyond case head. Gauge check of arm is indicated when this condition is noted

10 Bulged heads in rimfire cartridges indicates excessive headspace. This is highly objectionable, as it can result in burst case heads and escape of burning powder grains, case fragments, and powder gas from the breech. Accuracy of cal. .22 rimfire target rifles may be seriously impaired if headspace is excessive



SHOOTING CHAMPIONS

Alfred W.
Hemming



ALFRED W. Hemming, 55, who retired from the Detroit, Mich., Police Dept. in 1952, had a few chances to shoot a handgun as a member of the Michigan National Guard prior to becoming a policeman. Upon assuming duties with the Detroit police in 1927, Hemming served with Sgts. Joseph Lessnau and Bernard Livernois, both pistol shooting enthusiasts. They encouraged Hemming and made it possible for him to get a lot of practice.

Hemming's rise to national shooting prominence was rapid. In 1928 he won the National Center-Fire Championship, and repeated in 1931 and 1937.

The Cal. .45 National Championship was won by Hemming 3 times. In the mid-1930's Hemming also dominated the National Police Championship, taking the title 3 times. The culmination of his competitive honors at Camp Perry was the National Pistol Championship in 1938. He was selected as a member of the U. S. Mayleigh Cup Postal Team on several occasions.

In International competition, Hemming went to Mexico City in 1940 as a member of the U. S. Pistol Team and there won the cal. .22 and center-fire National Match Course events, and was second in the Mexican Defense Match.

Just prior to World War II all NRA tournament shooters were ranked nationally each year on the basis of scores fired in tournaments. Hemming was first in this ranking for 3 consecutive years, 1938-40.

No police pistol shooter has as yet equaled the National Police record score of 298 posted by Hemming over the center-fire National Match Course more than 20 years ago. This score was fired at a pre-Perry Match in Detroit in August 1938.

Hemming's present-day occupation of reloading ammunition for police departments limits practice and match competition. His most recent shooting accomplishment was winning the Citizen's Service Pistol Trophy in the National Trophy Individual Pistol Match at the 1958 National Matches.

Particularly interesting is that Hemming is a right-handed shooter yet aims with his left eye. This is necessary because of only half vision in his right eye.

Hemming has 2 sons and a daughter who are now shooting in smallbore rifle competition.—JOHN J. GRUBAR

the chamber beyond its normal stopping point so that the case mouth is pinched into the ball seat. In semi- and full-automatic center-fire arms, insufficient headspace almost invariably results in stoppages or jams.

Insufficient headspace can be hazardous in rimfire arms, as crushing of the case rim containing the sensitive priming mixture can result in discharge before the action is fully closed. In .22 rimfire self-loading rifles it can result in full-automatic fire.

Excessive headspace, to a degree, is not a particularly dangerous condition in center-fire arms of modern manufacture. Conversely, an arm is not necessarily safe to fire when headspace is within the accepted tolerance.

Excessive headspace in center-fire rifles is usually evidenced by incipient, partial, or complete separation (rupturing) of the case forward of the head. In all types of center-fire arms, including pistols and revolvers, protruding primers may indicate excessive headspace, although not invariably so.

Excessive headspace can be a very dangerous condition in rifles with receivers, bolts, or breechblocks heat-treated or casehardened to the point of embrittlement. While such parts may have great tensile strength, they may also show low resistance to shock.

Excessive headspace in rimfire arms is highly objectionable, as it can result in burst case heads and escape from the breech of burning powder grains, case fragments, and powder gas.

Due to increased cartridge end-play in the chamber, a firearm with excessive headspace is not likely to shoot as accurately as when correctly headspaced. The firing pin blow is partly absorbed in driving the cartridge forward against its stopping point. Since the cartridge is not positioned uniformly in the chamber from shot to shot, ignition of primer and charge is likewise not uniform.

Insufficient headspace may be corrected by deepening the chamber by reaming, or by removing metal from the face of the bolt or breech. Replacement of action parts to gauge may also correct the condition but is rarely practicable outside the factory.

Correcting excessive headspace

Excessive headspace may be corrected by fitting a replacement bolt or breechblock to gauge, by setting back and rechambering the barrel, or by replacing the barrel.

Headspace adjustments require the services of skilled gunsmiths or factory technicians equipped with the proper gauges, replacement parts, and knowledge for the job.

Headspace gauges are simple measur-

ing instruments but care is necessary in their use. Chamber of the arm, breech or bolt face, and action locking surfaces should be scrupulously clean to avoid interference from foreign matter.

In arms equipped with hook extractors, the rim or flange of the gauge should be introduced under the extractor before inserting the gauge into the chamber. Where closing of the action is against mainspring tension, it is advisable to remove the striker mechanism to increase sensitivity of the gauging. In revolvers, take care to clean extractor recesses and undersurface of the extractor to remove powder grains, etc., which might prevent it seating fully in the cylinder.

Do not force

After this cleaning, the gauge is introduced into the chamber and an attempt made to close the action *with light finger pressure only*. Appreciable force should not be used as this may damage the gauge, gun chamber, or gun operating parts, and will almost certainly falsify the reading. Turn-bolt rifle actions in particular exert great camming power and it may thus be easy to close the bolt on the No-Go gauge to effect an erroneous reading.

The use of shim stock of known thickness on the head of a cartridge case is not a reliable method for determining headspace, and should be used as a secondary measure only.

The reloader of rimless rifle cartridges should be alert to the fact that full-length resizing of cartridge cases may shorten the body of the case, creating a condition equivalent to excessive headspace. Such shortened cases may on firing show incipient, partial, or complete separation as well as protruding primers, all signs of excessive headspace. The fault may lie in the case sizing die or the shellholder. Most die manufacturers instruct users of their equipment to adjust the sizing die so that it just touches the shellholder to accomplish full-length resizing. This is sound advice provided the die and shellholder are correctly matched. It may introduce an error however if the die cavity is short or if the case head recess in the shellholder is too shallow for the die used with it.

A practical method is to check the resized cases in a full-length case gauge to determine if they are being resized within the headspace tolerance established for that cartridge. The full-length case gauge may also be used to determine relative headspace of a rifle, with fired cases from full-charged loads. Rimless cases fired with reduced loads are not reliable for this gauge check as they may be shortened in the body. ■

Winning Public Support For Shooting

Here is a fine way to introduce youngsters to shooting and shooting to parents

By Daniel K. Stern



A youngster blazes away at a clay target at the *San Jose Mercury and News Teens Shotgun Clinic*. Two fields with 3 firing points on each were used. Boys fired in rotation with a coach on each firing point. Note close attention of crowd to the shooting

ONE of the best ways to help provide proper firearms training for youngsters, open the eyes of their parents—particularly the mothers—and at the same time obtain beneficial public relations for your club, is to work with your local newspaper and stage a brief training and shooting session for young people in your community.

Public service projects

Newspapers are often willing to take on such projects as public service ventures. They are even more willing when it is something that will benefit children. Most of them will do their share and a little more, often to the extent of helping with the financing, if they are convinced that you will do your part. Unfortunately, many newspapers have been 'burned' by groups who like the publicity and pictures, but leave the bulk of the work to the paper. Newspaper-

men have a full work load of their own and to dump more on them, when it's not their job, is not only unfair but downright foolish of the organization which tries it.

It is equally important to approach the paper with a practical plan logically worked out. Remember, only you know your layout, your club members, and their strong points and shortcomings.

Finally, many clubs just don't know how to approach the paper or the right persons to see.

First, whom do we see? In newspapers with circulation of 100,000 or more, the man to see is the public relations and promotion department head. Often papers of this size have in addition a writer attached to the sports department who handles hunting and fishing news.

Smaller dailies generally handle their public service projects through the edi-

torial (news) department of which sports is a branch, so here the man you want to contact is the sports editor.

On weeklies your contact should be the publisher, who wears as many hats as he has to and will welcome a chance for additional live news as well as the opportunity to help the community.

Making the appointment

If in doubt, a telephone call will locate the right person. Make an appointment at his convenience. This is important because an approach at a time when he's busy may get you a brushoff instead of an acceptance because he hasn't the time to talk—then.

You should have your plan worked out ahead of the appointment—what you wish to do, how you intend to accomplish it, the assistance you seek from the paper, and the benefits to the paper as well as yourself.



Display boards showing the components of rifle cartridges and shotgun shells, often available from sporting goods dealers, always attract the interest of youngsters

Let's spell that out. The idea must offer the paper an opportunity to perform a public service, in this case the opportunity for youngsters to learn about firearms and firearms safety. You will provide the grounds (the range or trap layout), equipment (guns, targets, and miscellaneous gear), and the necessary personnel to give the instruction and to handle target assignment and such things as parking.

In return, you would like the paper to furnish publicity, attract participants, and possibly provide some financial help. This last depends in part on the project you have in mind, how much you want, and the paper's policy. You generally have to play this pretty much by ear according to the situation.

Acceptance by the newspaper will hinge on whether the paper thinks it can trust your promise to work, and on how well you spell out the public service objective.

The purpose must be worthwhile

The latter is the paper's reason for helping you because, through you, it will be helping the public. If your community has had an unfortunate gun accident involving a youngster, you have a fine chance to point out that it is not the empty gun that causes the trouble, but rather the person with the empty head and the loaded gun. Your clinic, if that is what you're planning, will warn youngsters of this danger and show them how to avoid it positively.

Then you explain your plan in detail, emphasizing what your club can do and the nominal help you desire from the paper. The better organized your plan to handle parking, make relay and target assignments, and supply adequate coaching and firing line instruction, the better your chances.

If instead of a clinic you're planning a charity shoot for the benefit of some

phase of boys' and girls' work, you will also need someone to collect and be responsible for the funds.

Regardless of which type you plan, an ordinary shoot may not be enough of an attraction to bring out a crowd, so you will need an extra or two.

Trap and skeet clubs might keep in mind that with shotgun clinics it's a good idea to include an exhibition round of skeet, 2, or at most 3, to a side. Skeet is fast, dramatic, and a good crowd-pleaser.

There are a number of alternatives. One is to do as the *San Jose Mercury and News* have done on several occasions—use an exhibition of muzzle-loader shooting. This always commands wide attention and appeal. Here in California we tag it with a gold-rush connection and call it a "Days of '49" event.

The *Charlotte (N. C.) Observer* had a couple of local major league baseball players, who were also good shots, put on a special demonstration and autograph a few baseballs as prizes.

On the general subject of prizes, most donors expect some kind of return. Be careful that you do *not* suggest that the paper will make such a return by a mention of the donor in its columns. Some papers permit this, but many resent this form of 'tapping' their advertisers. Check thoroughly before you do it.

In the rifle or shotgun clinic for youngsters, prizes are not essential if your program is well conceived. The fact that the show and the shooting are free is usually enough.

Charity and benefit shoots

Up to this point we have been almost entirely concerned with events that involve no cost to the public. Now what about charity or benefit shoots? With these undertakings prizes and entry fees are a necessity.

If your club is planning a public event such as a Thanksgiving or Christmas turkey shoot, you should arrange to buy your prize turkeys in bulk. High score in each relay takes a prize. Entry fees should be high enough to return the cost of the event plus a profit for the charity or youth group which will benefit. It is my belief that keeping the relay size fairly small with higher entry fees, say 10 or 12 shooters at \$1 each, works better than relays of 20 or 24 at 50¢.

Have plenty of 'luck' relays where skill doesn't count, plus 'women only' and old gun events to broaden interest,

Yes, I would like to take part in the Mercury and News TEENS SHOTGUN CLINIC at the San Jose Trap and Skeet Club Sunday, Oct. 18, 1959, starting at 1:30 p.m.

My name is..... I am..... years old.
(Age limits 13-16 inc.)

I live at..... City.....

Phone Number.....

My son daughter named above is of the age stated and has my permission to participate. I understand the San Jose Mercury and News and the San Jose Trap and Skeet Club, Inc. assume no responsibility.

.....
(Parent or Guardian's signature)

Here is the sample of the application form and release for clinic attendance. Use of this form enables the sponsoring group to fit the entries to the capacity of the range

attract the less skilled shots, and provide plenty of material for advance publicity stories and photos.

Keep in mind here, too, that to get adequate support you must spell out your charity and benefit motives.

Although virtually all newspapers and clubs carry some insurance protection, it is well, regardless of the type of event but particularly with children, to obtain releases as a condition of participating. You're going to take every precaution to see that no accidents occur—and I have not heard of any having taken place—but you'll rest easier if you have this set up in advance. A sample of the combined entry and release form we have used is shown on the opposite page.

Timing of the event is also important. It should be held on a weekend when both participants and your club members are most readily available. Like program planning, recruitment of working club personnel should be done as far ahead as possible. This should be placed under a club officer who has the drive and ability to get the job done. He should plan to have more members than there are jobs as some, no matter what they say, just won't show up for the event.

Work assignments will include parking, squadding, public announcements, and safe maintenance of the firing line. In youth events there should be a coach for every firing point without exception. A public address system is essential where the firing line is extended over a considerable area, as in trap layouts. One can be rented from retail electronics stores at a nominal fee.

Registration is means of control

On free, clinic-type shoots, having the paper carry the registration coupons will simplify squadding as well as enable you to fit the entry list to the capacity of your range. The coupons should preferably be returned to the paper so the release record may be retained. Then the information on them can be transferred to 3"x5" cards and given to the squadding officials before starting time. As each youngster appears, his card can be pulled and the relay and target number written on it. The card is surrendered at the firing line and eventually finds its way back to the original file. This system prevents repeaters and helps maintain an orderly operation.

On fee-type affairs, advance entries are not needed unless you have a special event scheduled in which only a limited number of shooters can participate. In such cases it is a helpful control device.

As soon as you establish the date and time for your shoot, the paper will

make its own arrangements for coverage. On all but the smallest papers this will include photographs of the action as it transpires.

Club members can be helpful here, too. You can tell the photographer what to watch for and where to be to get the best pictures. Don't assume that he knows. Unless he is a fan of the sport, he probably will be at a loss to know what he should look for. The same applies to reporters. Your help will be appreciated as they want to look good, just as you want the stories and pictures to be good. And, from your standpoint, the quality of pictures and stories will have a bearing on how much space you'll end up with, and how much support you'll receive the next time you want newspaper cooperation.

This may sound like a considerable amount of work, and it is. However, especially when you're working with kids, these events are a lot of fun plus making goodwill for your organization and quite often recruiting new members if you want them.

Here are a few specific suggestions.

In youngsters' events, keep recoil and weapons light. Remember, they want to be able to 'hit something'.

Good age limits are 13 to 16.

Unless you have a special reason, forbid all outside guns.

See that the paper has the names of all your members who are going to participate, and be sure they are spelled correctly. If you don't know the spelling, find out.

Methods of advance publicity by the paper will vary considerably. Some will use ads, some will use news stories, and some will use a combination of both. Don't try to badger the paper about too much advance publicity too soon. From long experience they have learned that the public will not act, no matter how much it likes an idea or intends to participate, until virtually the last minute. This is frustrating, but it is also human nature and newspaper people know that neither they nor you are going to change it very much.

Do keep in mind that what you are doing is of prime importance to the maintenance and unrestricted continuation of shooting of all kinds. You are helping to show outsiders the pleasure and recreational value of the sport. You are making a major contribution in helping prevent the ignorant and careless use of firearms and are thus helping save lives. And, above all, you are showing children and parents alike that here is something worthwhile—a sport that teaches quick reactions, perseverance, and the satisfaction of a job well done; a sport that you can follow from childhood right through life. ■

RANGE PLANS

THE NRA has a number of brochures and manuals on range construction and shooting arrangements. Some of the most popular are:

You Can Have A Place To Shoot



An 8-page booklet telling how other clubs have successfully approached the job of getting a range. Examples include the outdoor multi-purpose small-bore rifle, high power rifle, and pistol range layout of the Corpus Christi (Tex.) Pistol & Rifle Club; an unused stable converted into a gallery range by the Hopedale (Mass.) Pistol & Rifle Club; and outdoor smallbore rifle facilities constructed from various oddities such as a caboose. Price: 25¢

Outdoor Smallbore Rifle Range Plans

A suggested layout of club house and outdoor smallbore rifle range for shooting at 50-yd., 50-meter, and 100-yd. targets, including firing line covers, target scoring racks, bulletin boards, and a range house. The range builder can use all or part of the suggested layout. A plan is given for the Universal outdoor smallbore rifle target frame, now used at the National Matches at Camp Perry, Ohio. A lighting system for outdoor night shooting is also illustrated. Price: 50¢

Outdoor Pistol Range Plans

Drawings of 3 plot plans for a 20-target pistol range complete with turning targets. Drawings of target frame construction for the Colt silhouette target and the Standard American target and target operating details are included. A sketch of the F.B.I. Academy Practical Pistol Course showing various positions and distances used is also a part of this booklet. Includes drawings for stationary target use. Price: 50¢

High Power Rifle Range Plans

Twelve pages of over-all range dimensions and details of range construction, including vertical and horizontal type target holders. Dimensions of 5 types of firing line covers, some new and efficient scoring systems, and plans for an underground 100-yd. test range complete the booklet. Price: 75¢

WHETHER YOU'RE A VARMINT SHOOTER OR A PLINKER THERE'S AN F.I. GUN FOR YOU

The SHOOTERS BULLETIN

Now that the snow line has receded back to the arctic from which it came, crows—once again—are on the move and chucks have come out of their winter's lethargy. The open season on Varmints is in full bloom!

The modern varmint shooter is extremely well off with the selection of wonderful cartridges from which to choose. While opinions will vary, the two most popular cartridges among serious shooters are the .222 or .222 Magnum and the 6MM (.243, .244, etc.).

There is little doubt that, everything considered, the .222 (or .222 Magnum) is the best choice in a varmint rifle for distances up to approximately 300 yards. One of the most powerful cartridges for its size ever developed, this little number is sure death on varmints to 300 yards, provided the rifle is sighted in and the marksman does his part.

Only a fine line of distinction separates the .222 and the .222 Magnum. Both are excellent choices although the nod might go to the Magnum if you're buying a new rifle. The margin is not great enough to sell a .222 just to buy a .222 Magnum, however.

The .222 shoots a 50-grain bullet at 3200 fps muzzle velocity; the .222 Magnum a 55-grain bullet at the same speed. There appears to be an advantage in the heavier bullet because it retains its velocity better. It may be a slightly better cartridge than the standard. Great accuracy is another distinct

advantage of .222 and .222 Magnum rifles. Also, their relatively low noise level is sure to make a hit with farmers. Shoot if you must, your deer rifle for varmints. It makes sense to get practice with the hunting rifle during the off season. But it doesn't add up to the best varmint shooting. Not by a long shot. You'll do better to use a rifle tailored for the purpose . . . and it will make you a better game shot to do so.


Practice conservation too. It's a good rule not to shoot chucks till after the first hay cutting. And make sure you have a safe backstop . . . no bullet can be depended upon not to ricochet and no target is worth taking a chance!

Pick the rifle and cartridge of your own choice . . . your experience may dictate that another caliber is best for your specific purposes. But you can't make a mistake by choosing a .222 or .222 Magnum for varmint shooting at ranges up to 300 yards or a .243 or .244 for ranges exceeding that distance. Nor can you miss with a Vixen or Forester rifle.

Sako rifles combine every conceivable requirement of the super-accurate long-range varmint rifle. Designed by expert riflemen, created and manufactured by Europe's finest craftsmen, the Sako is a combination of excellence and custom quality in a standard rifle at a standard price. Proving once again that quality is a standard—not an "extra" at F.I.

Now! **DOUBLE** fun with **2 GUNS IN 1**

The **COMBO**



THE COMBO is F.I.'s instantly convertible pistol-rifle combination. Now immediately available. It consists of the Unique Model "L" .22 Auto-loading pistol and a rifle stock and barrel assembly. About 10 seconds is required to convert the pistol to a rifle—no tools needed. Write for folder.

The COMBO, with Model "L" Black Steel Pistol\$64.95
The COMBO, with Model "L" Colored Aluminum Pistol 67.50
The Model "L" Black Steel Pistol 39.95
The Model "L" Colored Aluminum Pistol 42.50
The Rifle Stock & Barrel Assembly 25.00



SAKO VIXEN & FORESTER RIFLES
VIXEN Cal. .22H thru .222 Mag.
 Lt. Wgt. Sporter..... \$135.00
 Deluxe Sporter..... \$185.00
FORESTER Cal. .243, .244 & .308
 Lt. Wgt. Sporter..... \$149.50
 Deluxe Sporter..... \$185.00



F. N. MAUSER Rifles
 Cal. .220 S. thru .30-06
 Deluxe Model..... \$150.00
 Supreme Model..... \$170.00
 Supreme Model, Cal. .458-W. \$220.00



F. I. MODEL 1000
 Single Shot Rifle..... \$18.25
 Cal. .22 L.R. Only



UNIQUE X-51 Rifles
 Cal. .22 L.R. 5 Shot Semi-Automatic
 Standard Model..... \$85.00
 Presentation Model..... \$125.00



VALMET "FINNISH LION"
 Cal. .22 L.R. Target Rifle
 Without sights..... \$156.00
 With Redfield Olympic sights. \$188.50



AYA "MATADOR"
 Double Barrel Shotgun
 .410 thru 12 gauges..... \$160.00
 12 Mag. \$175.00; 10 Mag. \$189.50



MANUFIANCE "La Salle"
 Pump Action Shotgun
 12 Gauge only..... \$125.00



STAR Mod. "F" 4 1/4"
 Cal. .22 L.R. \$41.15
STAR Mod. "FS" 6"
 Adj. front sight \$41.15

ASTRA "FIRECAT"
 Caliber .25 Auto. \$29.90

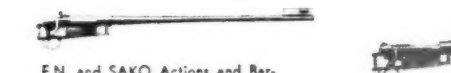
ASTRA "CUB"
 Caliber .22 Short \$29.90



ASTRA "CADIX"
 Revolver, 9 Shot, Caliber
 .22 L.R. \$49.95



UNIQUE MODEL "L"
 Cal. .22 L.R.
 Colored Aluminum \$42.50
 Black Steel Frame \$39.95



F.N. and SAKO Actions and Barreled Actions. Wide selection of models and calibers.



MANUFIANCE "La Salle" Pump Shotgun Actions, Barreled Actions and Interchangeable Barrels.

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LION"
Rifle
\$156.00
\$188.50

\$160.00
\$189.50

\$125.00



IN ADDITION to the sporter models illustrated, the VIXEN and FORESTER rifles are available also in Mannlicher, Heavy Barrel and the exciting Deluxe Models.

THE F. I. LINE of top-quality sporting arms includes a wide selection of rifles, shotguns, handguns and actions and barreled-actions, designed for the American shooter. They are all pictured and described in our new 24-page catalog, "FIREARMS FOR '60."

TWO OF A KIND

The two most popular calibers for Varmint hunting are the .222 and the 6MM cartridges. The Sako Vixen and Forester rifles, built on the L-46 and L-57 actions, are widely accepted as the most popular Varmint rifles. Each is designed for top performance in its particular calibers. Whether you choose the featherweight ultra-accurate VIXEN or the lightweight and powerfully-accurate FORESTER, you can be sure of maximum performance plus a lifetime of shooting pleasure.

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SEND 10¢ TO DEPT. A-05 FOR "FIREARMS FOR '60" CATALOG



**FIREARMS
INTERNATIONAL
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WASHINGTON 22, D. C.

THE population of the United States is growing phenomenally. Our sprawling cities are usurping land which only a few years ago may have been a bean field, a wooded area, or rolling foothills. We are living in a period of a dynamic economy and a rapidly changing technology.

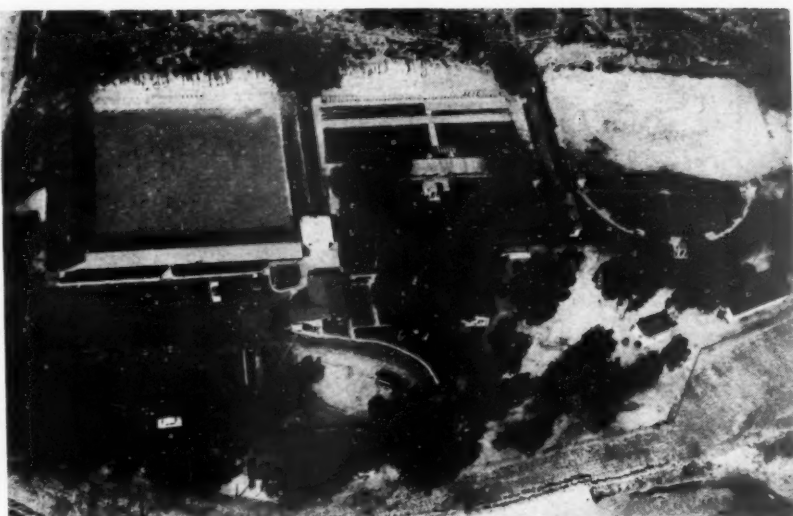
How does the rapidly developing countryside affect us as shooters? Even more important, how will it affect the future of organized shooting outdoors? It is of little significance to promote shooting as a sport or recreation if there are no convenient areas in which to practice, to teach practical firearms safety, and to perfect our shooting.

Rapidly expanding populations have created many problems for cities and communities. To program their capital expenditures intelligently and assure the community of an orderly growth, they have had to prepare long-range master plans which project for the coming years (usually 10 to 20) the utilization of land within their jurisdictions. They plan a well-balanced community in which the varied requirements of the population can be met.

Zoning Implications, Present and Future—I have asked several city planning and zoning officials what they consider to be the appropriate zoning for a shooting range. Answers have been divergent: Industrial, Recreational, Agricultural, etc. From a practical point of view I believe most city planning and zoning officials would categorize a shooting range as a 'non-conforming use'—that is, an activity that can go in several different zones but would have restrictions set on it. When a city grants such a nonconformity it is generally designated a 'conditional use'. Because of the infrequent requests for zoning for firing ranges, many cities do not provide specific criteria for such a use in their ordinances, hence the conditional use category (this covers other uses besides shooting ranges).

Zoning administrators may have the prerogative of designating the restrictions. Compatibility of the range with the surrounding area is a prime consideration, not only as the area may exist today but also in its projected utilization. In many cases conditional use categories have a time limit, or can be canceled at any time to cover unforeseen contingencies as the master plan evolves. A club must weigh these conditions very carefully. If they are too severe, it would be wise to seek another location.

Some Common Problems—It would be an error for a group to put a great deal of effort into building a good



Plan With The Community

In locating a range consideration must be given to zoning and land-use regulations

By Burton Taylor

shooting range (electric targets, shelters, range house, landscaping, etc.) and then in a few years find it surrounded by residences or other uses which could get the range classified as a nuisance or upgrade the value of the land to the point it is not economically feasible to retain it. It is a hard lesson to learn, but it has happened in many instances and will happen again if the club doesn't plan ahead.

The problem bears most critically on existing ranges which are being encroached by community growth. Several things can be done. On a pistol range not involving a large area, protective baffles can be built for safety. Larger areas for shotgun and high power rifle shooting are more complex. It may be prohibitively expensive to build an adequate baffle system for outdoor high power rifle shooting. Also the noise factor is much greater. Noise can partially be cut down by heavily landscaping the range plus semi-sound-proofing the shooting structures.

But is it economically feasible to make all these improvements? The estimated cost of improvements should be weighed against finding a new location. Think ahead! Make a list of all factors. Every shooter will interpret them in his own way, and he should be cross-questioned by other members on his

opinions. When each has had his say, a few dominant fundamentals will become obvious and the group will have a basis on which to make up their program of accomplishment.

Discuss such questions as: If we relocate will the same problems arise later at the new location? Will we be forced into limiting club size due to lack of room for expansion? Shall we buy or lease the land? Shall we operate as a private group or under the city parks and recreation department? What are our long-range plans and can they be realized at our present location?

Over the years I've observed many city and regional master plans, and have yet to see one set aside a specific area for shooting. It is essential that clubs get together with planning officials and make their needs felt. A club member should be assigned to go to zoning hearings, and report to the club items which are pertinent to its welfare.

Commercial and industrial enterprises generally approach city officials and say, "We feel this is a good location for our future activity (they may be referring to open farm land). Will it be possible to get it zoned for our use?" If an over-all long-range master plan has been prepared for the area and if their requests fall within the general framework of the plan, they

will get what they require. A shooting club, or a *combined clubs' association*, can do the same thing. You can't expect the tail to wag the dog and assume the location of a future range will be a strong influencing factor in broad scale planning. It won't. But in designating future peripheral uses it can be very important. But! Get there first, and get the best zoning you can. A precedent having been established, again within the context of the over-all community master plan, the range should have few encroachment problems in the future.

Various parks and recreation departments have pondered the problems of making active and passive recreational activities compatible with a shooting range activity. There are, from an associational point of view, various psychological factors which must be considered from the noise created by a shooting range. By ordinance, city enforcement agencies have to act on noise complaints, thereby generally forcing shooting ranges into isolated locations. When you mention shooting as a recreational pastime, you are talking about an activity in which the problems are accentuated by the unique characteristics of the firing range. These are best illustrated by discussing the criteria of selecting a site for shooting.

Site Selection—What is the ideal location for a shooting range? Again, make up a list—this time covering observations about ranges on which you've shot. What was good about them? What was bad? Can the good features be duplicated on your range? Are the bad features correctable, and adaptable to your range? In establishing any site selection criteria it is essential to itemize the basic factors and carefully evaluate each one.

Area Requirements: The required area can vary from one acre for a pistol range to over 100 acres for a combined pistol, rifle, and shotgun range. Plan ahead! You may wish to start with shotgun shooting only, and add other ranges as membership grows and funds for expansion become available.

Geophysical Site Characteristics: Ideally the best site would be one which, within itself, had the following: (a) a natural backstop for bullets; (b) natural barriers around the site (such as rivers, hills, or large drainage channels) to assure privacy and eliminate the possibility of encroachment; (c) no drainage problems; (d) natural sound abatement.

Accessibility: As in other daily recreations, you can't expect participants to drive such distances that get-

ting back and forth takes the pleasure out of the sport. Therefore a range should be within reasonable commuting distance from the city, say no more than one hour's drive. If picnic areas and facilities for youngsters are provided at the range, the 'factor of use' is much higher.

Land Economics: Because of some of the characteristics mentioned above, firing ranges can, and perhaps should, be placed on inexpensive land. Whether to lease or buy must depend on the financial status and long-range plans of the club, but generally it is advisable for the club to retain as much control as possible in the development of the land. Firing ranges can go where commercial, industrial, and residential uses cannot. It would be an error to locate a range and in a number of years find it impossible to keep and justify economically because of skyrocketing land values. Also, what is the local tax situation?

Wind and Orientation: Shooting should be toward the north. By making local inquiries and studying the foliage and soils in the area, a fairly accurate knowledge of wind conditions can be obtained. Have plants a tendency to lean in one direction? Is there any drifting evident in the soil? By all means assign various club members to visit the proposed site at different times of the year and particularly during different weather conditions.

Utilities: Ask your local department of water and power and your city engineer for a rundown of available utilities, with estimated costs of bringing them to the range. Specific utility requirements will obviously depend on the size and nature of the range. Also check with your county roads department and, if necessary, the state highway department to learn their plans for your area.

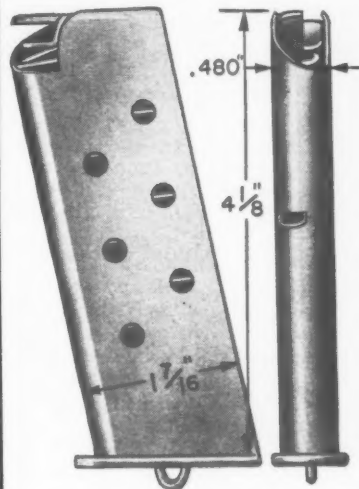
Long-Range Benefits—Over the past several years anti-gun legislation has reached a fever pitch, and undoubtedly the battle will continue. But I can think of no better response to those who are trying to take our guns away from us than to make clear to them that organized shooting is a family and community affair and, as such, the shooters themselves have taken the initiative in working with city planning and zoning officials in planning ahead, and setting aside areas for shooting, just as we set aside any land-use area which is to become an integral part of the community and which fulfills one of the basic recreational needs of the citizens. ■

Model 1930
and 1933
Tokarev
Pistols



PISTOL MAGAZINES

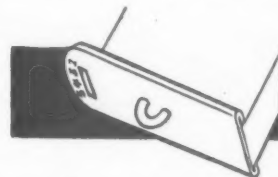
One of a series



Tokarev pistols are basically of Browning design, but lack any safety except for the half-cock. They are only fairly well machined and the parts are not always interchangeable. This is true of the magazines. For best results the magazine number should match the pistol serial number. Tokarevs fire the powerful bottleneck 7.62 mm. Russian and 7.63 mm. Mauser pistol cartridges. They are not as well made as most German and U. S. automatics, but are powerful and reliable.



Tokarev magazines can be recognized by their relatively small width and large front-to-rear dimension. The step in the sheet metal follower is another identifying point.



These magazines are usually numbered on the front lip of the floorplate. The lanyard loop and rectangular floorplate retaining stud are typical features.—E. J. HOFFSCHMIDT



Part 3 of 4

THE DEVELOPMENT OF FIREARMS

Breech-loaders and Automatics

Text by Harold L. Peterson

Illustrations by Herschel C. Logan

GUN designers all over the western world applied themselves to the task of improving the rifle after the American Revolution. First came the problem of increasing the speed of loading. Various experiments with round balls proved disappointing, and inventors turned to elongated forms with pointed ends. Finally, the answer was found in one of these cylindro-conoidal bullets with a hollow base which could be loaded loosely but expanded by the explosion of the charge to fit the bore tightly. Many men helped perfect this bullet. A Capt. Norton and William Greener of England were followed by Capt. C. E. Minié of France. Minié's bullet had an iron cup in its base which was driven forward by the force of explosion and so expanded the soft lead bullet. Minié's name was given all such bullets, but it was an American, James H. Burton of Harpers Ferry Armory, who brought the projectile to its perfected form. He found that if the cavity in the bullet base were suitably designed, no cup or wedge was needed. His bullet was self-expanding, and it was much cheaper and easier to manufacture. The so-called Minié ball which the United States adopted in 1855 was in reality Burton's.

Development of the self-sealing bul-

HAROLD L. PETERSON of Arlington, Va., an historian with the National Park Service, is author of the books "Arms and Armor in Colonial America", "The American Sword, 1776-1945", "American Knives", and other publications and articles on firearms and related subjects.

let was of tremendous importance. The rifle could now be loaded as quickly as the musket. The smoothbore was finished as a military weapon. Its speed, strength, and balance could now be combined with the rifle's accuracy. For a while the United States still recognized both rifles and rifle-muskets, but this referred only to their external form. Both were indeed rifles, and soon the contradictory terms were dropped.

Breech-loaders and repeaters

Even the fully developed muzzle-loaders using the Minié ball still left much to be desired. A good man could load, aim, and fire one in about 20 seconds; and Civil War soldiers were expected to get off at least 2 shots a minute under combat conditions. This was not fast enough. It was next to impossible to load from the muzzle and handle a ramrod while lying down or in cramped quarters. A soldier should be able to take advantage of available cover and still use his gun. Firearms that loaded at the breech and could shoot several times between loadings would help both of these problems.

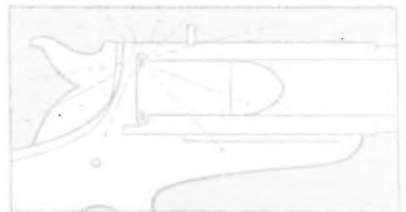
There had been attempts to achieve these ends almost from the beginning. The first cannon, in fact, were breech-loaders, and there were multi-shot firearms at least as early as the opening years of the 16th century. The first breech-loaders usually had separate chambers which were loaded, inserted into the breech, and fastened in place. Some, however, used metal cylinders remarkably like the modern metallic

cartridge case. Generally they suffered from serious defects. They were fragile, expensive, leaked gas, and were subject to excessive fouling. The multi-shot arms as a rule employed a number of barrels and locks, revolving cylinders, or a Roman candle principle in which several charges were loaded in one barrel and charges set off in succession by the flash of the preceding shot.

One especially good repeating breech-loader was developed in Italy early in the 17th century. Michele Lorenzoni of Florence may well have invented it, and most Europeans refer to the principle as the *system Lorenzoni*. The same gun is usually classified in America as the Cookson type since the first such gun described in an American publication bore the name John Cook-



VOLCANIC—Leading the parade of self-contained cartridges (though anticipated by somewhat similar devices in Great Britain and Europe) is this bullet with a hollow base in which was contained powder and a tiny speck of fulminate. This had no cartridge case



RIMFIRE—Containing fulminate in its rim, this cartridge has undergone but little change in outward appearance since it was developed by Smith & Wesson nearly a century ago



ANNULAR RIM—Serving as a container for the fulminate, the annular rim on this 1865 Crispin cartridge also acted as a gas check when the charge was ignited by fire from the hammer crushing any point on the rim

son, a British gunsmith of the late 1600's. In these guns, powder and ball were loaded into separate tubular magazines in the butt. A single backward and forward movement of a lever on the left side of the gun rotated a cylindrical breechblock which picked up a ball and charge of powder and placed them in the barrel. At the same time it primed the pan and set the piece at half-cock. The usual capacity was 5 to 7 shots. It was an excellent arm but an expensive one because all parts had to be made with great accuracy. A loose fit or a partially closed breech might allow the flash from the charge to explode the powder magazine. Despite these disadvantages, guns of the Lorenzoni system were made in Italy, England, and probably even America.

Some were still being made in England as late as 1800.

Early repeating rifle

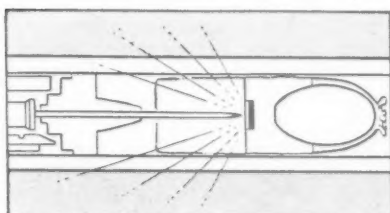
In northern Europe, Denmark developed a repeating rifle in which a revolution of the trigger guard loaded powder and ball from separate magazines and cocked the piece. These rifles are usually called Kalthoffs since the earliest known specimens were made by Peter Kalthoff of Copenhagen about 1641. Both wheel locks and flintlocks were produced, and they saw military service in the hands of the Danish Foot Guards during the siege of Copenhagen (1658-59) and the Scanian War (1675-79), thus becoming possibly the first repeating rifles ever used by regular troops in war.

Single-shot breech-loaders also were being tried for military service, though most had to wait until the next century. France tried some in 1723, and Austria armed its dragoons and light cavalry with breech-loaders in 1770. Neither experiment lasted very long. In England an excellent breech-loading rifle developed slowly during the early years of the century and was finally perfected by Col. Patrick Ferguson in 1776. The system was simple and effective. A screw plug passed up through the breech of the barrel. Its lower end was attached to the trigger guard. One revolution of the guard lowered the plug until its top was flush with the bottom of the chamber. A ball and powder could then be dropped in the chamber, and a turn of the trigger guard the other way closed the hole and forced out any excess powder. Col. Ferguson succeeded in persuading the government to arm between 100 and 200 men with his rifle for service in the American Revolution, and they served briefly in this country. The Ferguson rifle was probably the finest arm to see service in the war. It could fire 6 times a minute. It was accurate and equipped with a bayonet. Nevertheless it did not find favor with those in authority, and its active career was short.

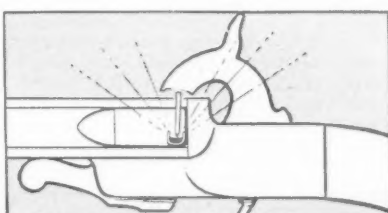
Thus it was that the honor of adopting the first breech-loading rifle as a standard military arm fell to the United States. This was the rifle invented by John H. Hall of Portsmouth, Maine, in 1811 and adopted officially in 1817. It was a flintlock with a breechblock containing both the lock mechanism and the chamber which could be tipped up to load, then closed and locked in position by a spring catch. Since the junction between chamber and barrel was a simple butt joint, there was considerable leakage of gas, and the little spur under the barrel which served to open the breech was continually annoying the soldiers who carried it. Nevertheless, Hall rifles and carbines were made in both flintlock and percussion ignition for some 25 years, the last known contract for a Hall carbine being awarded in 1850. Hall rifles also had the distinction of being the first American firearms made with completely interchangeable parts.

In Europe, Johann Nikolaus Dreyse invented his famous needle-gun in 1829, and it was adopted by the Prussian Army in 1841. Antoine Alphonse Chassepot developed a similar rifle in France; and Capt. F. W. Scheel of Norway developed a tip-up breech which was adopted by that country in 1842. And still other countries continued to work on the problem.

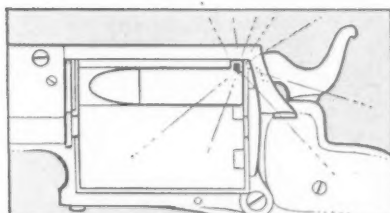
Once again, an American came for-



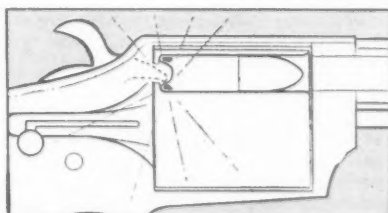
NEEDLE FIRE—To explode the primer in this odd system in the Prussian needle-gun, it was necessary for the needle to penetrate through the main powder charge, also contained within the paper cartridge case



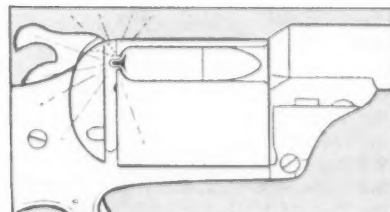
PINFIRE—A blow from the hammer drove the small pin into the cap containing fulminate, which ignited the powder in this earliest of successful self-contained cartridges



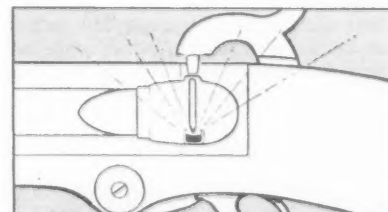
LIP FIRE—A small lip, protruding beyond the circumference of the case, contained the fulminating charge for this 1860 invention



CUP PRIMER—A hooked-nose hammer crushed the rim of this cartridge, an attempt to circumvent the Rollin White patent

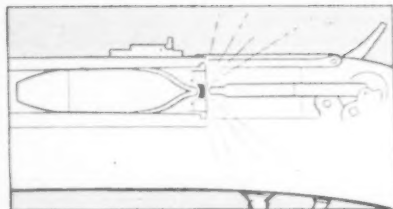


TEAT FIRE—Another of the front-loading cartridges, this 1864 invention contained the fulminate in a teat which was crushed by a chisel-nosed hammer

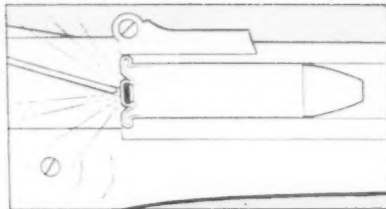


INSIDE PINFIRE—Detonation of this cartridge, patented in 1859, was by means of the hammer striking the hump on its bulbous case. This in turn caused the inside pin to explode the fulminate

Early Center-Fires

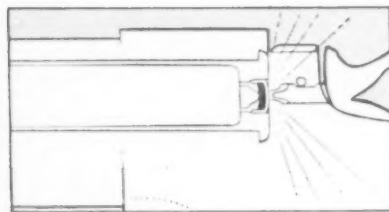


MORSE—A percussion cap was exploded when crushed against the heavy wire anvil attached to the inside of the case of this early metallic cartridge patented in 1858

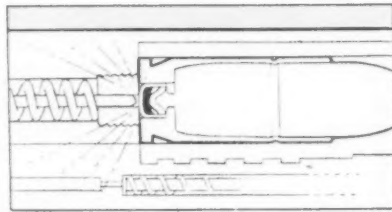


MARTIN—Employing a primer pocket formed out of one continuous fold of the metal case, and containing the fulminate and a tiny anvil, this was an early metallic center-fire

Reloadable Center-Fires



RIMMED—This early, solid head, rimmed case made use of a Berdan-type primer. The priming compound is sealed in the cap by a sheet of silver foil



RIMLESS—Utilizing a modern primer embodying the action of both explosive compound and anvil, modern center-fire cartridges are the result of long development

ward with one of the best. Christian Sharps of Philadelphia, who had worked under Hall, invented his famed system in 1848. The breechblock was raised and lowered in a vertical mortise by a lever which also served as the trigger guard. When the breechblock was lowered, the chamber was open for loading. As the block was raised, a sharp edge sheared off the rear of the cartridge and exposed the powder to the flash from the priming pellet, which was fed automatically over the nipple by the action of the hammer.

The Sharps action was very strong. It was as good an arm as could be produced with the soft combustible cartridges of the period.

Many other breech-loading arms were designed and manufactured during the critical years of the Civil War. None were as good as the Sharps, and some were highly unsatisfactory. It is doubtful that many would have found a market without the stimulant of the war.

Meanwhile, repeating arms also continued to develop. The United States tried the Roman candle system briefly during the Revolution with the Belton musket, and again during the War of 1812 with Chambers rifles, muskets,

and pistols. Sliding locks which fired superposed loads one after another were also tested. The British experimented with multi-barrel carbines, and on the Continent there were other attempts to increase firepower.

Practical success came first to the pistolmakers, with the pepperbox and then the true revolver. A pepperbox pistol consisted of a number of barrels clustered about a central axis, and fired singly as they were revolved beneath the hammer. Guns had been made on this principle for over 150 years, but it required the percussion ignition system to make them practical. Some of the new pepperboxes were single-action, requiring the hammer to be cocked by hand between shots; others were self-cocking, the hammer rising and falling as the trigger was pulled. During the height of their popularity in the late 1830's and 40's, they were the fastest-firing guns available and much sought after. They had drawbacks, however, principally lack of accuracy. The fact that the barrels revolved automatically as the trigger was pulled and the cock rose precluded any possibility of real aiming.

It was the revolver which solved the problem of accuracy and eventually

forced the pepperbox into obsolescence. In this gun the barrel remained stationary while a cylinder containing the chambers revolved. The theory of the revolver was just as old as that of the pepperbox, but it took a canny Connecticut inventor named Samuel Colt to refine it and develop it into a major weapon. Colt's contribution consisted of a device for rotating the cylinder automatically as the hammer was drawn back, and his patent on this feature was granted in February 1836, only one month before another application for a similar patent was received from a maker of pepperboxes. For many years the revolver could not compete successfully with the pepperbox, and once Colt was forced to go out of business because he could not obtain enough orders for his guns. In the middle 1840's, however, an Army contract for new and improved revolvers allowed him to open a new factory, and thereafter the new gun quickly established itself as a popular favorite. It was an excellent weapon and one of America's greatest contributions to arms technology. It was soon copied by many others, in Europe as well as America, who sought in various ways to avoid patents which Colt had obtained in the United States and abroad and which successfully held competitors in check until the patents expired in 1856.

With the revolver (both pistols and long arms), the repeater had developed about as far as it could with the ammunition available. Further advances waited on ammunition improvements. The link between repeaters and their ammunition is illustrated in the work of 2 American gunsmiths, Horace Smith and Daniel B. Wesson. Together these friends invented a repeating rifle and pistol using a new cartridge which contained its own primer. It had a lever action and a tubular magazine under the barrel. Their guns were improvements on a system developed earlier by Walter Hunt and Lewis Jennings. Simplified and strengthened by Smith and Wesson, it formed the basis of the Volcanic pistols and rifles of 1855. Later, with still further improvements by B. Tyler Henry, it was the basis of the famous Henry and Winchester rifles.

As the Henry rifle was being developed, a serious competitor appeared in the Spencer rifle and carbine patented in March 1860 by Christopher M. Spencer. The Spencer had a tubular magazine for 7 metallic cartridges in the butt. It had poor ballistic qualities, but was a sturdy, dependable arm and a great favorite with soldiers who used it during the Civil War. After the war, the further-refined Henry and Win-

chester rifles captured so much of the civilian market that Winchester eventually bought out its competitors.

Following the Civil War the United States adopted a breech-loading single-shot rifle, first in cal. .50. and then in .45. It was an excellent rifle with very good ballistic qualities, but the era of the single-shot military rifle was rapidly drawing to an end. Before 1900 all principal nations had adopted a repeater as their military rifle. Almost all were bolt-action, but here and there the Winchester lever-action was still preferred.

For more than 50 years the bolt-action rifle maintained world-wide supremacy as a military arm. Then requirements for greater speed and effectiveness led to automatic or, more correctly, autoloading arms beginning late in the 19th century. Pistols and machine guns came first, followed more slowly by rifles.

The first practical automatic pistol, the Schonberger, was manufactured in Austria in 1892. Within a few years it had a host of competitors. These new pistols used the force of recoil to eject the empty cartridge, load another from the magazine, and cock the action. Rifles and machine guns often use directly a portion of the powder gases to operate the mechanism.

Guns requiring the trigger to be pulled for each shot are called semi-automatic, while those that fire continuously while the trigger is held are called full automatic.

Automatic pistols were widely used during the first World War, and during both World Wars many automatic arms appeared alongside the bolt-action rifle. During and following World War II, replacement of bolt-action rifles with autoloading progressed rapidly.

Since during most of its history the usual muzzle-loader was a smoothbore, shot could be fired from it as well as single bullets. Buckshot was sometimes loaded with the ball in military arms. The sporting use of buck, swan, and bird shot was widespread, and led in time to guns designed for firing shot. Improvement in firing mechanisms eventually made it possible to hit running and flying game. The flintlock single- and double-barrel guns made by Joseph Manton in London early in the 19th century set the present-day standard shotgun form. The breech-loading double-barrel shotgun was due mainly to the Parisian gunmaker Le Fauchaux. Developments since the American Civil War have been hammerless actions, choke boring, and many models of pump-action and self-loading magazine guns. (To be concluded next month)

MAY 1960

Hervey Lovell

HERVEY Lovell was born in Sheridan, Ind., on Aug. 10, 1886, when blackpowder was almost the only powder for firearms. Stories of the great West led him, at 16, to the docks of Seattle.

Lovell joined a group of men going to Alaska to study salmon migrations. Their ship had just reached the shores of southeastern Alaska when he broke out with a severe case of smallpox. In all haste the ship returned to the States where Lovell was dropped off at Diamond Point, Wash. Lovell recovered from the smallpox and eventually returned to Indiana.

At the age of 20 he married and settled down to making a home. His occupations were numerous, but always mechanical. He worked in the early automobile factories when a week's production was one or 2 autos. In 1911, Lovell and his wife moved to California, but later returned to Indiana. By then firearms were his interest and hobby. But the conventional type did not suit him, which led him to chambering barrels with his own ideas of caliber and case shape.

Lovell's primary interest was in bench-rest shooting, though he went to Camp Perry repeatedly, where he brushed elbows with Harry Pope and garnered much basic knowledge from this old barrelmaker. A. Zischang and Charles Newton, the pioneers of wildcats, helped him.

Winchester high-sidewall actions were the primary actions used for his wildcat cartridge conversions, much as Pope the barrelmaker used. To make a wildcat in those days many reamers were made, tried, and discarded. There were a few other men doing similar experimental work with small bores and high velocity. Such men as Buhmiller the barrelmaker, Vernor Gipson the gunsmith and wildcatter, and Sisk the bulletmaker exchanged ideas. This led to rivalry in some cases and deep friendship in others, but always a measure of respect. In fact, Lovell bought the first machinery for Buhmiller when he began his barrelmaking.

Lovell developed his own version of a .22-'06 made from a shortened and necked-down .30-'06 case.

Another wildcat of Lovell's was on the .219 Zipper, with the full-length case blown out at the shoulder. The first reamer for this gave it a 24° slope at the shoulder, the same as the .220 Swift cartridge. But this was changed when Lovell decided that the 28° shoulder slope was more desirable.

One cartridge developed largely by Lovell, and currently in production by Griffin & Howe, is the 2R Lovell. Lovell necked the .25-20 single-shot cartridge and changed its shape slightly, calling it the .22-3000. But he reshaped it by sharpening the shoulder.

With a further slight alteration in shoulder angle by Harvey Donaldson, it was put in production by Griffin & Howe and is popularly known as the .22-3000 2R or 2R Lovell.

Lovell obtained orders from various parts of the world for his wildcat cartridges. These he furnished, and sent along recommended loads with bullets, and even handloading dies of his own design. The dies were a necessity as he was the only one with a reamer for both rifle chamber and loading dies for his wildcats.

In December 1945, Lovell and his wife settled in Port Townsend, Wash. He continued his rifle chambering and rifle building for a few years, until his hands became too crippled to do all the jobs he was asked to do.



For quite some time a Mr. Cleaver, a game warden and gun crank of South Africa, had wanted Lovell to sell him his wildcat reamers. It was Cleaver's job to exterminate many of the plains antelope that were spreading an infectious disease of cattle, rinderpest. Cleaver first used a .220 Swift but soon gave it up. When Lovell sent him the reamers, Cleaver made up wildcats in Model 70 Winchester actions. On the first job and target, a Lovell Improved .219 Zipper gave him a 5-shot group at 100 yds. of 3/4" center to center.

Hervey Lovell has maintained for years that one of the greatest factors in obtaining accuracy lies in the bullet. His favorite big-game cartridge has been the 6 mm. Lee Navy cartridge. In .22 cal. Lovell believes that the .222 Remington is the finest cartridge ever developed for accuracy. For proof, check the bench-rest scores.

Today, Lovell is the weather recorder in Port Townsend. There is temperature to record, rainfall to measure, and storm warning flags to raise. He has not given up his guns, but takes in all the hunting around his home. He has a mania for bear but settles for anything that comes along. His favorite rifle is a scoped Mauser shooting a .22-250 cartridge. With this he has good success shooting hair seal off Diamond Point, the place that nearly placed him on Boot Hill some 55 years ago.

—ALFRED J. GOERG

DOPE BAG

Data and Comment

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IN MY EXPERIENCE

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TRY IT THIS WAY

HERE'S HOW I DID IT

One privilege of NRA membership is that of being able to receive answers to questions relating to arms, ammunition, and shooting.

Every Dope Bag question-letter submitted must contain the member's 'code line' from RIFLEMAN mailing label or membership card.

If you are not a member and want an answer, submit your question with your membership application and dues. (See page 13)

CONTRIBUTING EDITORS

Frank de Haas H. E. MacFarland
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Herschel C. Logan Bert Popowski

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• UNIQUE X-51

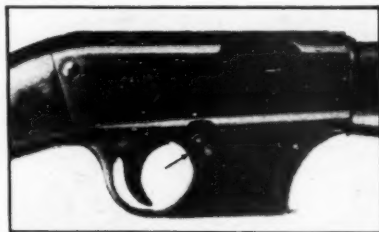
French .22 autoloading rifle has some unusual features

A semi-automatic .22 rifle designated Unique X-51 was recently introduced by the French firm Manufacture d'Armes des Pyrenees Francaises, and is imported by Firearms International Corp., 4837-R Kerby Hill Rd., Washington 22, D. C.

This arm, which is offered in standard and presentation grades, is an improved version of an earlier Unique .22 rifle which was sold in France for many years. It is of blowback type, and has a box magazine which is detached by pressing a catch on left side of trigger housing. The operating rod for retracting the bolt is at the front of the fore-end, and is similar to that of the Model 63 Winchester rifle. The crossbolt safety in the trigger guard is of conventional design.

Unusual features

An unusual feature of this rifle is its magazine safety. Like that of many semi-automatic pistols it prevents firing when magazine is detached. There is also a pin-type cocking indicator in forward part of trigger guard which can be seen and felt except when hammer is cocked. Another unusual feature is the fire selector knob on right side of trigger housing. If semi-automatic fire is not desired, the knob is rotated counterclockwise several turns, and the bolt will then stay open



Action of Unique X-51 rifle showing fire selector knob (see arrow)

after each shot. Depressing the knob releases the bolt which springs forward and chambers a cartridge. According to the manufacturer, this device makes for ammunition economy and increased safety.

Excellent quality

Quality of workmanship and finish is generally excellent. Except for the sheet-metal magazine and fore-end cap, almost all metal parts are machined steel. Finish on interior parts is very good, and surfaces on exterior of rifle are nicely polished and blued. Buttstock and fore-end

are well-polished dark walnut, and 7/8" sling swivels are provided. The buttstock is man-size, but the fore-end is rather short, especially for a shooter with long arms.

The presentation model of this rifle has chrome finish on receiver, trigger housing, operating rod, swivels, and fore-end cap, and receiver and trigger housing are engraved. Buttstock is select walnut.

Takedown is easily accomplished by removing magazine, unscrewing a large coin-slotted screw on left side of receiver, and removing the bolt, trigger group, and buttstock as a unit from barrel, fore-end,

Specifications

UNIQUE X-51

MECHANISM TYPE: Semi-automatic, detachable magazine
GRADES: Standard, Presentation
CALIBER: .22 long rifle
WEIGHT: 5 lbs., 5 ozs.
BARREL LENGTH: 19-7 10"
OVER-ALL LENGTH: 36 1/2"
MAGAZINE CAPACITY: 5 rounds
STOCK DIMENSIONS: Length of pull 14", drop at comb 1 3/4", drop at heel 2 3/4"
SIGHTS: Bead front, open rear with elevator. Receiver grooved for standard tipoff scope mount
SIGHT RADIUS: 17"
RIFLING: 6 grooves, right twist
PRICE: Standard, \$85. Presentation, \$125.

and receiver. Bolt is pulled to rear and upward to separate it from trigger housing, recoil spring, and guide.

Functions well

There were no malfunctions during our tests in which high-speed and standard velocity cartridges of several makes were fired. Accuracy was sufficient for plinking and small-game hunting which is the intended use of this rifle. The only drawback we noted was the creepy trigger pull which varied slightly from shot to shot. Despite this, the rifle handled well and was pleasant to shoot.—NRA TECH. STAFF

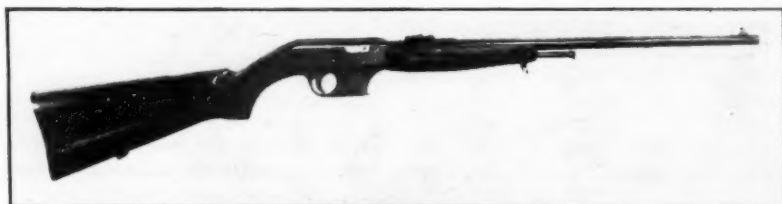
• LACHMILLER DIES

Pistol-bullet swaging dies for 7/8" x 14 thread loading tools

Pistol-bullet swaging dies at \$14.95 per set from Lachmiller Engineering Co., 6445-R San Fernando Rd., Glendale 1, Calif., are available in calcs. .357, .44, and .45. They are adapted to any reloading tool made for 7/8" x 14 thread dies.

The semi-wadcutter bullets are formed from short sections of lead wire and 3/8" high copper base cups, and do not require lubrication prior to use. Case necks are crimped into the body of the bullet above the copper cup.

The die body with integral ejection punch is screwed into the tool frame and the nose punch inserted in a .38 Special shellholder. A section of lead wire is then dropped into a cup and the assembly in-



Unique X-51 cal. .22 semi-automatic rifle





serted end-up into the die body. The nose-forming punch is then forced into the die body to form the bullet. With the nose punch retracted, the bullet is ejected from the die body by tapping the head of the ejection punch with a mallet. Weight of bullet can be varied by adjusting weight of lead slug and height of die body in tool frame. The small amount of excess lead wire extruded from the bullet nose is easily pinched off with the fingernails.

Swaging done easily

Our sample .357 (.38) dies are well made and formed perfect bullets. We experienced no difficulty in setting them up using directions furnished. It took but a few seconds to complete the swaging operation, and the physical effort required is not great.



Lachmiller pistol-bullet swaging dies

It is recommended that C-type loading tools be fitted with a front brace when used with bullet swaging dies of this type. These braces are available as an accessory from tool manufacturers.

Copper bullet jackets are \$1 per 100 in cal. .38, and \$1.25 per 100 in cal. .44 and .45. Lead wire is 35¢ per lb. The Lachmiller adjustable shear-type wire cutter is priced at \$6.—NRA TECH. STAFF

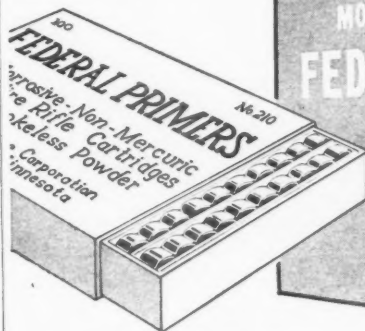
● **M14 RIFLE**

With modifications, now standard for all shoulder-rifle purposes

When the M14 rifle was standardized by the United States Army in 1957, it was accompanied by a heavy-barrel form designated M15. In addition to the heavy barrel the M15 had a bipod and a hinge buttplate, and was intended to replace the Browning Automatic Rifle M1918 (BAR) for providing a high rate of sustained fire.

Both the Army and the Marine Corps have now adopted certain changes in standard tactics, which render unnecessary the degree of specialized performance for which the M15 rifle was needed. The M15 has accordingly been dropped. It is replaced in its special role by the M14 modified by addition of a bipod and

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produced for U.S. Govt. and private use proves **FEDERAL'S** manufacturing know-how!

There is no substitute for experience. When you realize that Federal Cartridge Corporation has made and sold over 5,000,000,000 (five BILLION) primers, what better evidence can you ask to prove their quality and dependability. Federal experience means shooting satisfaction.

Federal Primers give you consistently uniform ignition — the prime requisite for accurate shooting. Neither temperature changes nor humidity changes can alter this uniformity. Independent ballistics laboratories have subjected these Primers to a temperature range of +140°F. to -60°F. and found *no variation in performance.*

Federal Primers are non-corrosive, non-mercuric and dependably stable. Put your trust in Federals—as many of the outstanding bench rest shooters do. Check the records.

Made in the U.S.A. where labor receives an ample salary.

IDENTIFICATION

No. 210 Large Rifle Primers — Brass Cup — RED printing on carton

No. 200 Small Rifle Primers — Nickel plated cup — BLUE printing on carton

No. 150 Large Pistol Primers — Copper plated cup — BLACK printing on carton

No. 100 Small Pistol Primers — Brass cup — GREEN printing on carton

retail price
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FEDERAL NO. 209 SHOT SHELL PRIMER
This is a "battery cup" primer—charged with Federal's non-mercuric, non-corrosive, extremely stable patented priming mixture—the same priming mixture as used in Federal's Hi-Power and Monark shotgun shells. Packed 100 to a box, 10 boxes to a carton.

retail price
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Federal Cartridge Corporation • Minneapolis, Minnesota

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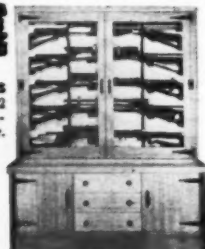
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DOPE BAG

hinge buttplate (see photograph). The bipod is readily attached to the gas cylinder of the rifle, and the hinge buttplate is interchangeable with the regular rifle buttplate. M14 rifles are simply modified

by attachment of these accessories when needed.

As shown in the photograph, the wooden handguard of the M14 rifle has been replaced by a perforated plastic handguard which is now standard.—NRA TECH. STAFF



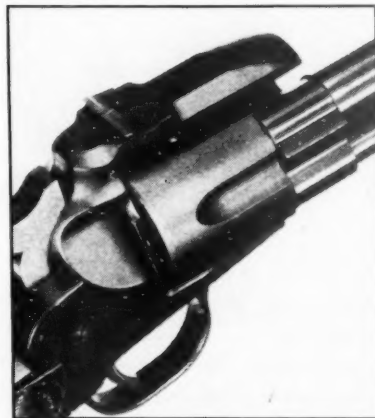
M14 Rifle with bipod and hinge buttplate attached

• SAVAGE MODEL 101

Moderately priced single-shot pistol resembles single-action revolver

The latest handgun to appear on the market is the Model 101 Single Action offered by Savage Arms Corp., Chicopee Falls, Mass. At first glance the Model 101 appears to be a traditionally styled 6-shot single-action revolver. Actually it is a single-shot pistol with dummy cylinder pinned to the barrel to form an integral unit. Thus, there is no gap at junction of barrel and cylinder to leak gas as in ordinary revolvers.

in the frame. The hammer rebounds so that it is unnecessary to partially or fully cock it before opening the breech. The main-spring is a virtually unbreakable coil spring. The frame and dummy cylinder are of die-cast alloy with barrel and other parts of steel. Grips are of laminated walnut-colored wood impregnated with plastic.



Breech swung out for loading

Specifications
SAVAGE MODEL 101 PISTOL
MECHANISM TYPE: Swing-out barrel single-shot pistol
GRADE: Blue-black finish only
CALIBER: .22 short, long, and long rifle (regular & high velocity)
WEIGHT: 20 oss.
BARREL LENGTH: 5½"
OVER-ALL LENGTH: 9"
SIGHTS: Square-blade, fixed front; square-notch rear, adjustable for windage by tapping
SIGHT RADIUS: 4¾"
RIFLING: 6 grooves, right twist
PRICE: \$19.50

The barrel and cylinder swing to the right to expose the breech for loading or ejection. The rod ejector is actuated by a thumb button under the left side of the barrel near the muzzle. The firing pin is of spring-loaded independent type pinned

Our sample gun was test fired at 50 ft. with both regular and high velocity ammunition. The trigger pull by scale check proved to vary from 4½ to 5 lbs. with long but smooth creep. The relatively heavy



Savage Model 101 single-shot pistol

hammer fall resulted in a pronounced muzzle twitch at instant of sear disengagement and this, coupled with the heavy trigger pull, made the gun rather difficult to shoot accurately when fired offhand or from rest. Smallest 5-shot group was 15/16"; smallest 10-shot group 2-3/16". The gun is convenient to load and ejection is positive.

The Model 101 is of ingenious design and appears suitably accurate for informal shooting.—NRA TECH. STAFF

• CRANE CREEK STOCKS

Semi-inletted stocks stabilized against swelling and shrinking

Wood is the only material which has gained permanent acceptance for gunstocks, but it has some severe faults and limitations. One is the swelling and shrinking to which it is prone with changes in atmospheric humidity. This has especially undesirable results in bolt-action rifles. No seasoning or coating of the wood can prevent this, though coatings do slow the transfer of moisture.

In 1959 the Forest Products Laboratory of the U. S. Department of Agriculture, at Madison, Wis., announced a wood treatment by which moisture absorption by wood could be reduced practically as much as desired. The treatment consists in soaking the wood for several weeks in a solution of polyethylene glycol-1000 until the chemical diffuses into and occupies the space in the wood fibers otherwise available to moisture. The wood is then kiln-dried or air-dried to remove the water of the solution, leaving the chemical in place. The process can be fully effective only on green wood in which the fibers have not been shrunk by any drying.

Requires special finish

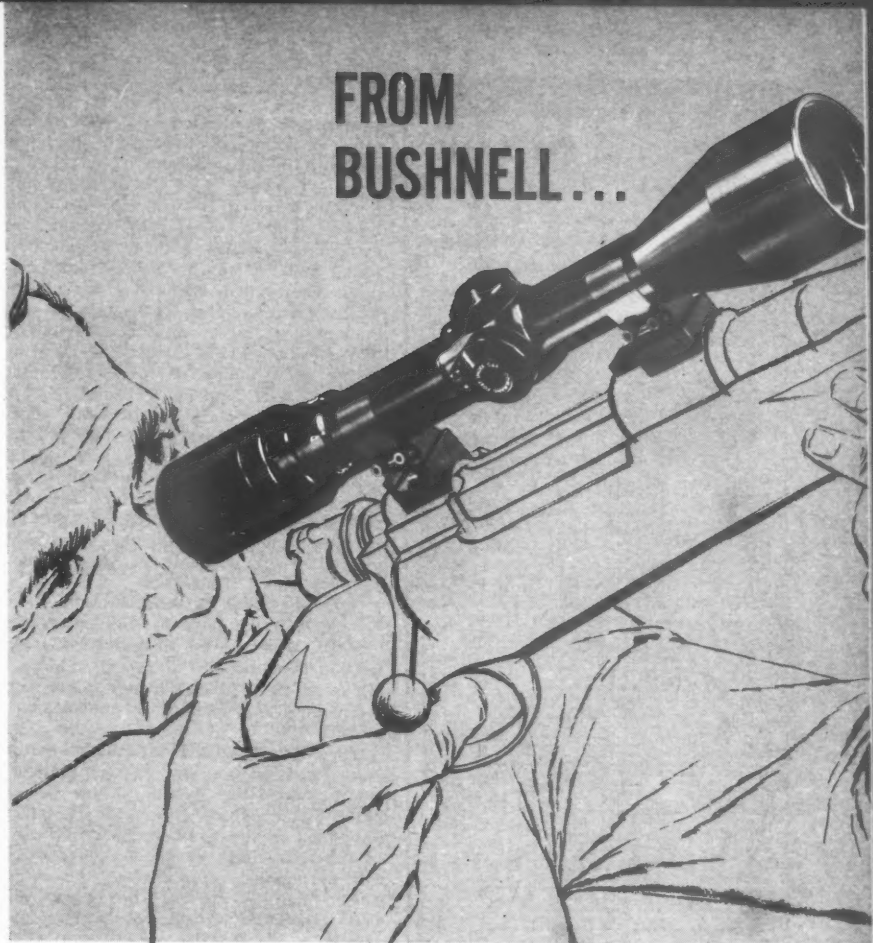
Usual finishes have refused to dry well over such treated wood. Also, since the chemical is water-soluble, it could rather easily be washed out of the wood through ordinary finishes. The only finish which has been reported entirely satisfactory is polyurethane resin.

It is important to note that this process only prevents dimensional change. It does not improve the hardness and strength of wood (in fact it is reported to lower these, to an insignificant extent), hence it offers no cure-all to stock troubles from failure of wood bearings by slow crushing, etc. Benefit is in dimensional stability only.

Since this process was developed and announced by a Government establishment, it may be used by anyone.

Gunstocks and do-it-yourself gunstock kits under this process have been announced by Crane Creek Gun Stock Co., P. O. Box 268, 117-119-R Second Ave., Waseca, Minn. The process is more effective in stocks than in uninletted blanks, since inletting thins the wood sections around barrel and action which then are effectively penetrated by the solution. The Crane Creek stocks are called 'pre-carved', but except for the treatment they are the same as stocks called 'semi-inletted' by other gunstock dealers.

The kit is for those who wish to save a part of the cost by performing the treatment themselves. Complete directions are supplied. The stock is shipped coated with



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DELUXE CuW & Hook, \$1.25

FREELAND Sling Keeper, \$1.25

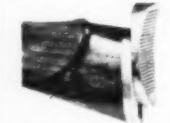
FREELAND Shooting Vats, \$17.50 & \$20.50

FREELAND SS&F Rifle Case, \$16.00

FREELAND Rifle Trunk, \$26.25

FREELAND 30 Caliber Shooting Kit, \$33.50

FREELAND 1/4 Opening Smallbore Shooting Box, \$20.00



Freeland Aluminum Adjustable butt plate, \$10.50

Freeland Butt Plate with rubber pad, \$13.00

Freeland Schutzen hook only, \$8.50

Freeland Olympic Butt Plate, base plate with FREE Rifle (Schutzen) Hook, \$15.75

Car window attachment, \$7.50

Freeland FORE-END STOPS for the \$13, \$21, \$22, \$25, and 40X	3.00
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FREELAND Shooting Gloves	\$5.00 & 2.25
FREELAND 3-Point Electric Bruler	15.00
FREELAND Palm Rests \$12.50 & Swiss Type	18.50
Carbine Lamp	3.40
TRIGGER SHOE Mention Gun	2.50
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HIGH STANDARD Double-9	44.95
S&W Model 41 22 Automatic	100.00
LYMAN 310 Loading Tool	16.50
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WIN. #28 N.P. Rifle	144.95
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REM. 760A N.P. Rifle	115.85
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DOPE BAG

preservative and sealed in a flexible polyethylene plastic bag, to retain all the green moisture in the wood until treatment is begun. This bag is to be saved to hold the stock and solution during treatment; however, the kit examined contained an extra bag, perhaps because it had been found that the bag around the stock was often destroyed in opening. The chemical, which though related to the familiar permanent-type anti-freeze is a solid looking like paraffin wax, is melted and then dissolved in 5 quarts of lukewarm water, making about 7 quarts of solution. The preservative is washed off the stock, which is then placed in the plastic bag and the whole placed in the lower half of the cardboard shipping box, the combination forming the soaking vat. The solution is poured in, the bag tied closed, and the vat stored level to keep the wood submerged. There it is left for not less than 31 days, more if desired.

After that time the stock must be dried —by kiln-drying if such facilities are accessible, otherwise by air-drying. The latter can be done over a period of 6 to 8 weeks in an artificially-heated room during winter, otherwise it may take much longer.

Then the stock is finish-inletted to the barrel and receiver like any semi-inletted stock, and the outside finish-shaped, sanded, and stained if desired. The filler is applied in the usual way. A first coat of the resin finish supplied, diluted 50% with turpentine, is applied to the entire stock—inletting, barrel groove, and all. This is necessary to prevent leaching out of the chemical filler should the stock ever be exposed to water or even very high humidity. Two finish coats are last applied, the first all over like the diluted coat, the last to outside of stock only. With correct sanding and polishing as directed, the result looks like a good lacquer finish.

The ready-treated stock as supplied has been kiln-dried, and is ready for finish-inletting, shaping, and finishing like any semi-inletted stock. The sample was of black walnut of ordinary figure. Appearance of the wood is not materially altered by the treatment. Finishing operations are exactly the same as outlined above.

The stocks, both kits and ready-treated, are available in Monte Carlo sporter type only, for Springfield 1903 and 1903A3,

Winchester 70, Mauser 98 and FN, Remington 721, and Enfield 1917. Black walnut is regularly supplied at the prices below, but black cherry is available at same prices. Figured walnut and certain other woods can be supplied on special order at higher prices.

Price of kit is \$30, sent express collect unless exact postage on 11 lbs. accompanies order. Price of treated stock with bottles of filler and finish is \$50 postpaid. —NRA TECH. STAFF

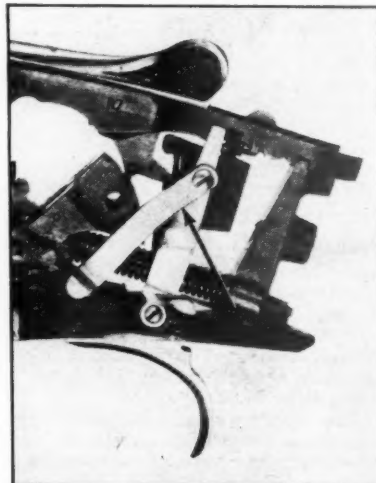
Being Evaluated

Items of importance received and on which evaluations are being prepared for publication in forthcoming issues include:

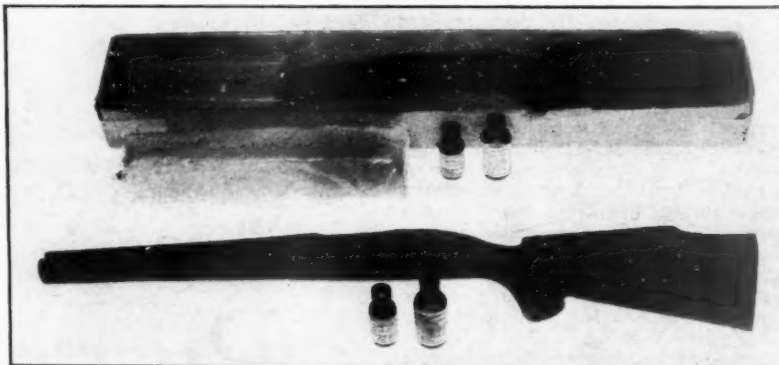
- Dietemeyer 300 shotshell loader
- Winchester Model 100 rifle
- Linker gunstock finish

New Products

Griffin & Howe, Inc., 114-R E. 13th St., New York 3, N. Y., will alter Browning Superposed over-under double-barrel shotguns so that the gun, when opened, automatically goes on safety. This is the standard construction in most double-barrel



guns and the conversion offers the Browning owner the same functioning. Conversion is by installation of an internal lever

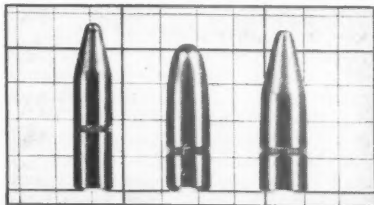


Crane Creek gun stock kit (top) including green stock with cardboard packing box and polyethylene bag to hold the soaking solution, block of chemical, bottle of toner-filler, and bottle of polyurethane finish. Ready-treated stock and bottles of filler and finish

(see arrow) linked to the locking bolt of the action. There is no external change in the gun. Cost of this conversion is \$37.50, and it is applicable in both 12- and 20-ga.

The **Winchester Model 21** shotgun, for many years the highest-grade double-barrel shotgun made in this country, is now produced only in custom styles assembled in a special shop of the Winchester plant. Gauges (12, 16, and 20), barrel lengths, and chokes will remain standard. Ventilated rib and chambers of 3" length are optional in the 2 highest grades. Grades are "Custom," with scroll engraving and ornamentation, price \$1000; "Pigeon," with gold-plated and engraved grip cap, ornate engraving, and carved stock, price \$2500; and "Grand American", with fine engraving and animal figures inlaid in gold, price \$3500. An extra set of barrels and fitted trunk case are supplied with the "Grand American" gun. Principal Winchester dealers are equipped to take measurements and specifications with the purchaser's order.

Soft-point hunting bullets recently announced by Hornady Mfg. Co., P. O. Box 906-R, Grand Island, Nebr., include a cal. .338 200-gr. spire-point at \$5.75 per 100, a cal. .270 150-gr. spire-point at \$5.25 per 100, and a cal. .303 174-gr. round-nose



at \$5.25 per 100. The latter bullet is identical in weight to the Mk VII cal. .303 British Service bullet and can also be used in 7.7 mm. Jap, and 7.65 mm. Belgian and Argentine Mauser rifles.

Cal. .224 hollow-point 50- and 55-gr. bullets, hand swaged in Bahler dies with R.C.B.S. or Sierra jackets, are \$2.75 per 100 postpaid from Peggarr Custom Loads, P. O. Box 928-R, Auburn, Ala. Also offered are cal. .38 cast wadcutter bullets at \$13 per 1000 prepaid.

Book Reviews

Unless the title of a book is followed by a star (*) the book is available from the NRA Book Service, 1600 Rhode Island Ave., N. W., Washington 6, D. C.

REVIEWED IN BRIEF

*Rules for the Management and Cleaning of the Rifle Musket, Model 1863.** 26 pages. \$1.

*Description and Rules for the Management of the Springfield Breech-Loading Rifle Musket, Model 1868.** 20 pages. \$1.25.

*Five Models Peabody Breech-Loading Firearms for Infantry and Cavalry Service, prepared for the St. Louis Board of Army and Navy Officers—1870.** By Providence Tool Co. 27 pages. \$1.75.

*Description and Rules for the Management of the Ward-Burton Rifle Musket, Model 1871.** 16 pages. \$1.50.

*Description and Rules for the Management of the U. S. Magazine Rifle and Carbine, 1894.** 36 pages. \$2.25.

Ray Riling, 6844-R Gorsten St., Philadelphia 19, Pa., has available facsimile reprints of the manuals listed above. Original line drawings have been reproduced and the manuals are bound in blue paper. Quality of reproduction is excellent and all contain a brief commentary by Col. B. R. Lewis, USA (Ret'd).

CATALOGS AND BROCHURES

Redfield Gun Sight Co., 1315-R South Clarkson St., Denver 10, Colo., will send on request their 1960 catalog illustrating the complete line of Redfield metallic sights, scope mounts, and Bear Cub scopes.

IN OTHER PERIODICALS

JOURNAL OF THE ARMS AND ARMOUR SOCIETY OF GREAT BRITAIN, VOL. III. NO. 4

C. H. Roads, "The Introduction of the Brunswick Rifle, 1830 to 1836"

A lengthy and detailed study of a weapon that has often been called "the most inaccurate rifle used in the nineteenth century by an European power". Based almost entirely on original and primary source material, this article is a major contribution to the history of military small arms. There are 10 photographs.

(A quarterly membership publication. Interested persons should write K. G. Wynn, 14 Cerne Close, Hayes, Middlesex, England. Annual dues for Americans, \$2.50)

ARMES ANCIENNES, NO. 13

Arne Hoff, "Quelques Inventions de la Famille Klett a Salzbourg"

The Klett family of Salzbourg, Austria, specialized in multi-shot firearms during the middle years of the 17th century. This article discusses several inventions for that purpose developed by this renowned family of gunmakers and applied to both wheel locks and flintlocks. There are 4 photographs and drawings of 4 marks.

(A subscription publication appearing twice a year. Interested members should write René Géroutet, 4 Place Claparède, Geneva, Switzerland. A year's subscription costs \$2.50, a single issue \$1.40)

PATENTS ISSUED

A list of patents issued recently dealing with arms, ammunition, and accessories.

To get a copy of a patent, send the number and 25 cents to the Commissioner of Patents, Washington 25, D. C. To communicate with an inventor or assignee, if the address given is not sufficient, send a letter addressed to him in care of the Commissioner mentioning the patent number.

Pneumatic gun for subaquatic hunting. Dante Draganti, Busto Arsizio, Italy. 2,923,286.

Recoilless gun with reverse gas flow. C. Walton Musser, Beverly, Mass., assignor to the Army. 2,924,149.

Indirect cartridge feed mechanisms of the rotor type for sliding breech automatic guns. Bernard Maillard, assignor to Brevets Aero-Mecaniques S.A., Geneva, Switzerland. 2,924,150.

Fishing casting gun. Ralph W. McSwain, Sunland, Calif. 2,924,211.

Magnetic telescopic sight mounting for guns. George E. Gee, Garden City, Mich. 2,924,881.

Rubber stock butt for a firearm. Rudolf Amsler, assignor to Schweizerische Industrie-Gesellschaft, Neuhausen am Rheinfall, Switzerland. 2,924,904.

Anti-recoil arms. Hugo Abramson, Eskilstuna, Sweden. 2,925,014.

Rim-gripping cartridge belt link. Harlan C. Clark, Oxford, and Roy S. Sanford, Woodbury, Conn., assignors to the Army. 2,925,015.

Target trap. George C. Luebke, Cincinnati, Ohio. 2,925,077.

Balloon target shooting apparatus. Frank E. Ryan, Jr., Rocky Hill, Conn. 2,925,078.

Acoustical firing indicator. Jean I. Mattei, Jean Blaise, and Rene Manganne, assignors to Office National d'Etudes et de Recherches Aeronautiques, Chatillon-sous-Bagneux, France. 2,925,582.

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.135	Express Card Wads99 per M
.200	Express Card Wads	1.25 per M
1/4"	Fiberfelt Waxed Wads	1.65 per M
3/8"	Fiberfelt Waxed Wads	1.65 per M
1/2"	Fiberfelt Waxed Wads	1.85 per M

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Member participation is not limited to competitive shooting, training, and other phases of the programs of the National Rifle Association. It includes also contributions of various types of material to THE AMERICAN RIFLEMAN, which appear under the following headings from time to time:

Questions and Answers—Pertinent questions about arms and ammunition and their use, with informative answers by Technical Staff members and Contributing Editors.

"In My Experience"—Material, essentially in letter form, dealing with a member's experiences with products and techniques. The conclusions expressed based upon good judgment and continued use.

"Here's How I Did It"—Detailed and illustrated directions of a mechanical nature requiring a brief description and illustration.

Try It This Way—Shorter items of a 'here's how' nature and not requiring illustration.

Of Special Interest—Unusual examples of gun making or modifications, submitted by the person who did the work or the person who owns the gun.

Questions and Answers

Initials carried in "Answers" below indicate handling by: Walter J. Howe, Julian S. Hatcher, E. H. Harrison, M. D. Waite, Ludwig Olson, Frank de Haas, B. R. Lewis, Herschel C. Logan, H. E. MacFarland, Clyde Ormond, Bert Popowski, and L. R. Wallack.

MAPS FOR HUNTERS

Where can I obtain topographical maps of the United States? I often hunt in wilderness areas and ordinary road maps aren't much help topographically.—D.R.T.

Answer: Accurate topographical maps of the U. S. showing contour lines are obtainable from the Washington Distribution Section, U. S. Geological Survey, Washington 25, D. C. They are available in 1:62,500 scale (1" on the map equals 1 mile on the ground), and 1:24,000 scale (1" on the map equals 2000 ft. on the ground); price is 30¢ each, payable in cash or by personal check or money order to the U. S. Geological Survey.

Each map, or quadrangle, covers a relatively limited area; thus, more than one map may be needed.

The above government agency will send, without charge, an index listing maps available for any state in which you might be interested. From this you can order the map or maps you need.

An optional method is to pinpoint your projected hunting area in relation to some town or other reference point, and the appropriate map, or maps, will be sent to you. Your possible radius of activity in

relation to the reference point should be indicated and this can be expressed in miles or fractions thereof. An initial payment of 30¢ should accompany the order.

It is important to note that some of these maps are relatively old and may not indicate presence of roads and trails built after the maps were made. Road maps obtained from filling stations or automobile associations are usually up to date and thus provide valuable supplementary information to the topographical maps. In addition to the topographical maps, aerial photographs of certain areas are available. Information is obtainable from the Map Information Office, U. S. Geological Survey, Washington 25, D. C.—M.D.W.

GERMAN TARGET RIFLE

Among the guns I acquired in Europe is an 8.15x46R single-shot rifle which resembles a Schuetzen type target rifle but is much lighter (weighs 7 1/2 lbs.), lacks a palm rest, and has a shotgun type butt-plate instead of the Schuetzen prong type. Do I have a junior target rifle, or is it a hunting rifle with some target rifle features?—F.L.

Answer: The rifle in question was intended primarily for shooting at stationary and moving game targets, and was a popular type arm in Germany prior to World War II. It was appropriately called a game-target rifle. A wild boar target was frequently used, and this rifle was often known as a wild boar rifle.

In addition to 8.15x46R, this rifle was offered in such calibers as .25-35 Winchester and 8x57JR, and was sometimes used for hunting. The specimen illustrated was donated to the NRA Museum by Jules Reiver, Wilmington, Del.—L.O.



German game-target rifle

BARREL VIBRATION

A gunsmith tells me that not only is the barrel swelled by the bullet passing through it, like an ostrich swallowing an egg, but also the barrel makes a whipping motion like a fishing rod, which tends to scatter its hits on the target. For this reason, he says some pressure should be exerted on the barrel by the fore-end tip, say 5 to 10 lbs., which will dampen the vibration and tighten the group. Are this explanation and remedy correct?—D.V.P.

Answer: The barrel, and in fact the whole rifle, does vibrate at the shot, but the above description is much oversimplified. In reality the motion is an extremely complicated one.

Much of the mass of a shoulder rifle is eccentric to the barrel, and the violent impulse of discharge must cause disturbances in the rifle. Vibration analysis has been applied to a few automatic aircraft guns to find means of decreasing dispersion, with good results. It has not been done on shoulder arms, and if done it would have to be repeated for each type, so the rifleman can only cut and try. The wood fore-end does have some limited mass and stiffness, which if suitably joined to the barrel would lessen the vibration amplitude. Consistent success was attained by Springfield Armory in fore-end fitting of the M1903 rifle. However, this was accomplished by years of application to substantially only one design of rifle, with wood and metal parts made by precise duplicating processes, the wood procured and treated under a constant specification, and a single cartridge. Also the tip of the military fore-end is in the most effective position on the barrel.

Results obtained by individuals with their great variety of rifles in use have been quite diverse.

Some find fore-end bedding successful and use it regularly. Some smallbore target shots have installed adjusting screws between fore-end and barrel with which the force applied can be returned to a desired value no matter how the wood may change. One leading smallbore target rifle, the Remington 40X, is manufactured with such a device.

Many other experienced shots, after extensive trial, have abandoned fore-end tip bedding. They 'free-float' the forward part of the fore-end to make sure that it cannot touch the barrel.—E.H.H.

MI TARGET SIGHTS

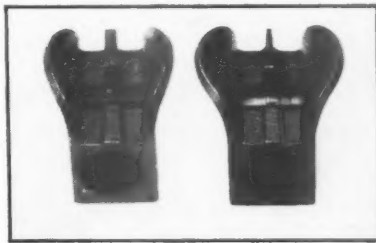
A member of our rifle club who attended the 1957 National Matches tells me that some of the M1 rifles used in the matches were equipped with front sights different from the standard. I remember that about 30 years ago there was a stir about what was called the Marine Corps front sight for the Springfield rifle. Is this new M1 front sight the same thing?—D.N.Y.

Answer: This front sight for the M1 rifle was worked up in a series of tests by the U. S. Army Rifle Team during the summer of 1956.

The "Marine Corps" front sight of the 1920's, to which you refer, was materially

wider than the standard Springfield sight, being used in widths of .1" or sometimes more. It was considered by its users to afford more uniform sight alignment, especially in elevation. The merits of this wide front sight were strongly praised by some of the leading big-bore target shooters of that time.

The new target front sight for the M1 rifle is exactly the opposite. While the



Special narrow target front sight (r.) for M1 rifle, and the standard sight

standard sight blade is .084" wide, the special sight of 1957 was made .062". It is considered to have the advantages of covering less of the target, and allowing the shooter to see wider white portions of the target on each side of the blade. This narrow sight or its equivalent was used by Service teams generally during the 1957 National Matches. Also the Ordnance Officer of the National Matches had a supply for attachment to the rifles of other competitors who requested it.

Both Army and Marine Corps have made careful tests of front sight width for target purposes. The Army concluded that, while a width of .060" could often be used to advantage, it was too narrow for best seeing under certain light conditions, and the sight should be manufactured .065". The Marine Corps, testing in a different part of the country, preferred .060". The target sight, therefore, will be manufactured to .062" width to meet all conditions, and it can be slightly narrowed if desired. Regulations now permit the use in competition of M1 front sights between .055" and .084" wide.

A rear sight aperture smaller than the standard has been used in target shooting for some time. This is considered especially desirable with the narrow front sight. The standard aperture is .072". Most shooters in the U. S. Army Advanced Marksmanship Unit at present like an aperture of .0595", and a relatively small percentage prefer .0520".

The following are available to NRA members through the Director of Civilian Marksmanship. Names, item stock numbers, and prices are as follows (absence of dimensions in the name indicates the standard item):

1005-614-7427-B021, Sight, front—70¢; 1005-573-1601-B021, Sight, front .062"—\$1.45; 1005-600-8868-B021, Aperture—77¢; 1005-348-8654-B021, Aperture .095"—77¢; 1005-348-8655-B021, Aperture—77¢

The standard sight may be narrowed within the above-mentioned limits.

The special dimensions of front and rear sights are for target shooting only. There is no change in the Service sights, which are intended for use under all Service conditions.—E.H.H.

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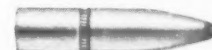
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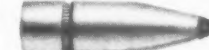
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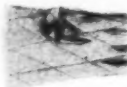


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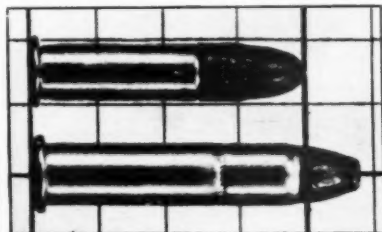
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DOPE BAG

.22 WRF

Could I rechamber my K-22 S&W revolver for the .22 WRF cartridge? Are bore dimensions and twist rate suitable for this conversion?—P.L.T.

Answer: This conversion would be unwise as the bore dimensions of the K-22 are incorrect for the .22 WRF cartridge. The average groove diameter of the barrel is .223" whereas the .22 WRF requires a groove diameter of .226". Also, you



.22 long rifle (top), .22 WRF (on 1/4" grid)

would have to relocate the firing pin to obtain certain ignition on the larger head of the .22 WRF cartridge. Accuracy would suffer, not to speak of the fact that you would be using a more expensive cartridge with little gain in power over the .22 long rifle high speed loadings. The .22 WRF cartridge is rapidly becoming obsolete.—H.E.M.

RANGE DESIGN

Have comprehensive experiments ever been made on the glancing of bullets? If so, their performance could be predicted, and target range designs prepared to require minimum space.—L.B.C.

Answer: Many experiments have been made by the military on the factors in bullet ricochet (glancing). A great deal is known on the subject, though there does not seem to be any compilation of this knowledge available.

A limited number of investigations has been published in scientific journals, but mostly concerning impact on water.

Undoubtedly it would be possible to outline, by a sufficient number of experiments, the conditions producing rather precisely predictable results from impact on a hard smooth surface. The shape, construction, and speed of the bullet all would have an effect.

However, the above depends on the angle of incidence being precisely known. This it can never be, except for impact on exceptionally regular surfaces such as still water. Almost always the surface will be in irregular humps and furrows, even when it is free of twigs, stones, etc. The effect then must depend on the slope of the surface at the exact point struck, which obviously must be to some extent a matter of chance. Prediction of the ricochet angle therefore must remain impossible.

The practical solution to the problem of range design has been worked out in long experience. The floor of the range is leveled and stones larger than gravel are cleared off, leaving a surface smooth enough for a reasonably predictable glance angle. Then a slope behind the targets is prepared, steep and soft enough to absorb

reliably the bullets striking it directly, and high enough to catch those glancing up from the range floor. Last the background is safeguarded, which requires either a clear zone of sufficient length and width behind the backstop (depending on range of the ammunition fired) or installation of curtains to prevent firing over the backstop.

This background requirement can force the closing of a range because of settlements built in the line of fire. The fact the range was there first will not save it when its operation begins to bar others from use of their own land. That situation is increasingly likely with the suburbanization of areas farther and farther from cities, and it calls for great foresight when the range is established. On the other hand, ranges can be operated safely within cities, at the cost of relatively elaborate construction features.

The National Rifle Association has prepared detailed range construction plans for almost any requirement, and makes them available at very low prices. These are listed with their prices in a special folder which is sent without cost to any one requesting it.—E.H.H.

BRASS SHELL WADS

Is there any way to secure the top wad in all-brass shotshells besides cementing it in? If that could be omitted, the reloading would go faster since no operation outside the loading tool would be required.—E.S.

Answer: Cementing the thin over-shot wad in place with water glass (some prefer cellulose cement) works well, but it is admittedly an extra operation, and also the cement left inside the shell should be scraped out occasionally to prevent damage to the over-powder wads on next loading.

A reloader known to me has successfully used a felt top wad held in place by friction alone, requiring no cementing. The wads are obtained by splitting a 1/2" felt filler wad into 3. The wad is of the necessary oversize required for all wads in brass shells, and he finds it satisfactory for his use.

Obviously its satisfactoriness for others must depend on severity of the conditions to which the reloaded brass shell is exposed. The condition tending to loosen the top wad or crimp in any shotshell is leaving the shell in the magazine of a pump or selfloading gun or the unused barrel of a double, during the setback of repeated firings; or else prolonged shaking in the shooter's pocket. The handloader desiring to use the above system should make sure by trial that the top wad will stay in his shells under his own conditions of use. The top wad giving way and dumping the shot would be an inconvenience, at the very least.

A secondary consideration which will occur to the experienced shotshell loader is the possible worsening of patterns from a thick top wad. Regular top wads are made as thin as practicable to minimize this effect. While no doubt a thick top wad would 'blow' an occasional pattern, the ordinary user probably will find other factors of more decisive importance to him in determining whether to use this system in his all-brass shells.—E.H.H.

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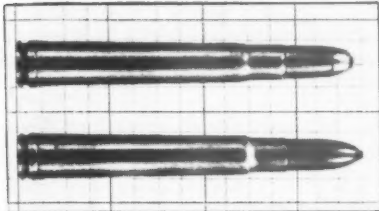
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.350 G&H MAGNUM

A cartridge in my collection is head-stamped "WESTERN 350 G&H MAGNUM". It is of belted rimless type and very closely resembles the .375 H&H Magnum. When was it introduced and by whom?—S.T.

Answer: The .350 G&H Magnum cartridge, also known as the .35 G&H Magnum, was developed in the mid-1920's by the New York firm of Griffin & Howe.



.350 G&H Magnum (bottom) and .375 H&H Magnum cartridges (on 1/4" grid)

The cartridges were loaded for them by Western Cartridge Co. with 275-gr. open-point copper jacketed bullet at a muzzle velocity of 2441 f.p.s. A 220-gr. loading was subsequently offered with a muzzle velocity of 2790 f.p.s.

Rifles in this caliber were made up on the Mauser magnum action as the cartridge was too long to function through the Springfield or M98 Mauser action.—M.D.W.

.276 ENFIELD

What is the ballistic performance of the .276 Enfield rifle which England experimented with prior to World War I? What is the model designation of this rifle, and why didn't England adopt it?—P.R.

Answer: The .276 Enfield rifle, designated Pattern 13, fires a cordite-loaded cartridge with 165-gr. pointed bullet, and muzzle velocity is 2800 f.p.s.

This rifle is of Mauser type, developed to meet the requirement for a weapon of better ballistic performance than the .303 Lee-Enfield. Shortcomings of the latter were apparent during fighting in South Africa against Boers armed with 7 mm. Mausers.

While the .276 Enfield met ballistic requirements, the heavy charge of cordite produced great barrel heat and excessive muzzle blast and flash. It was found that if a cartridge remained in a hot barrel for more than a short time, dangerous pressures were produced. The best way to deal with these difficulties was under consideration in the summer of 1914.

It was not feasible for the British to change to cal. .276 during World War I, and the Enfield was produced in cal. .303 and designated Pattern 14. The Pattern 14 was produced in this country by Winchester, Remington, and Eddystone. It is similar to the Pattern 13 except for modifications necessary to adapt it to the .303 Mark VII cartridge, and omission of the diagonal grasping grooves on the fore-end.

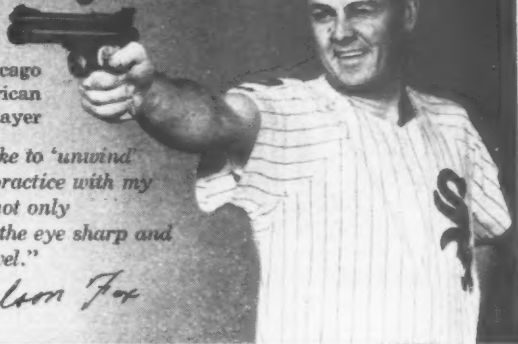
The .303 Mark VII cartridge proved ballistically adequate during World War I, and therefore further experimentation with the cal. .276 ceased.—L.O.

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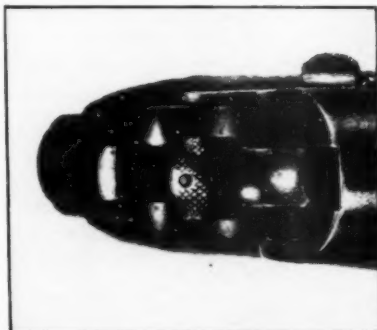
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DOPE BAG

DRY FIRING SCHEME

I have an old 1911 Model Government .45 that has something that I have never seen on any other pistol of this model—a small hole, about 1/16" in diameter or less, going right through the serrated hammer spur. Can you give me any information on this?—A.C.N.

Answer: That hole was not on the pistol when it was originally made. It has been added. It was used to facilitate dry firing. The shooter placed a small cord through that hole and held the end of it in the left hand. With the pistol empty, it was aimed and snapped at a mark; when the hammer fell, the cord was jerked back to recock the hammer and to simulate recoil. This method of snapping practice or dry



Hole in the hammer of this early .45 M1911 was made to permit the attachment of a string for dry-firing practice

firing with the Government Model automatic pistol was at one time suggested in the Training Manual. It does not require a hole in the hammer. The cord can be knotted around the thick part of the hammer and it will work equally well.—J.S.H.

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. . . Paper cartridge boxes for cal. .30-'06 rifle cartridges?

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From Warshal's, First & Madison, Seattle 4, Wash.

. . . Palm rest for an International-type target rifle?

From Canjar Rifle Accessories, 4476-R Pennsylvania, Dept. AR1, Denver 16, Colo.

. . . "The Machine Gun", Vols. 1 and 4, by Col. G. M. Chinn?

From U. S. Govt. Printing Office, Div. of Public Documents, Washington 25, D. C. Price: Vol. 1, \$5.75. Vol. 4, \$6.50.

"In my experience . . ."

BB CAPS IN ATTICS

Bay City, Mich.

Editor:

An ever-increasing proportion of home indoor rifle and pistol ranges must be located in attics or other above-ground locations because of basement-less house construction. Probably the outstanding hazard of firing on such ranges is that of a wild shot penetrating the walls, ceiling, or floor. This is most likely in wooden houses.

Protection of the entire floor, ceiling, and walls of a home range against the not inconsiderable penetration of the regular .22 long rifle cartridge would be prohibitively expensive.

There is, however, an answer to this problem. It lies in use of the recently revived .22 BB cap cartridge.

The .22 BB cap was the first of the .22 rimfire cartridges. It originated in France before our Civil War. The once widely-sold Flobert rifles were quite popular in the United States half a century ago, but since then few guns for the cartridge have been imported and none made here. Its stubby case and 19- or 20-gr. ball at low velocity made the BB cap seem a poor value as compared with the .22 short at the same price. It was used at very short ranges and occasionally for killing sparrows, the largest living target for which it is in any way adequate. Naturally, stocks on dealers' shelves were often very old and the cartridges consequently acquired a reputation for gross inaccuracy, possible misfires and occasional stoppages in the barrel. Manufacture of the cartridge was discontinued in the United States.

In Europe the BB cap retained its popularity, being used for informal target shooting and on small birds and vermin found around residences. As soon as conditions permitted after World War II, manufacture of the famed RWS Acorn brand .22 BB caps was resumed in Germany and the Eley brand in England. They are now available in the United States.

RWS .22 BB cap cases are shorter (.24" vs. .28") and over-all cartridge length is less (.34" vs. .42") than that of BB caps formerly made in this country. The spherical ball runs only about 16 grs. in weight as compared with the 19- or 20-gr. weight of the somewhat elongated American balls. The cartridge contains no powder at all; the powerful priming compound provides the propulsion. As in former times, price is the same as that of .22 shorts.

The principal attraction of the .22 BB cap cartridge is its limited penetration. It fails to pierce 3/4" plywood and, after sometimes passing through a 3/4" board of the softest white pine, bounces off a similar board without leaving an indentation. Often it will fail to penetrate over 1/2" of the other soft woods. Most home wall, ceiling, and floor construction is an impenetrable barrier to the BB cap. Protection of door and window openings is easily secured by placing panels of 3/4" plywood over them.

A secondary but also important attraction of the BB cap is its limited noise, especially when fired from a rifle. If one

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shoots into a relatively heavy bullet trap that has had acoustical tile cemented (perforated side in) to its outside, the noise of a BB cap fired from a rifle is almost unheard in other parts of the house.

In barrels with proper twist and chambering, the cartridge is as accurate as most at the usual indoor ranges. Even with the excessively fast-twist barrels and long chambers for the .22 long rifle cartridge, recent RWS BB caps proved highly accurate. Fired in a scope-sighted BSA Martini International rifle on a 35-ft. range, 5 shots made one small hole. The point of impact was 1/4" higher than that of regular-speed long rifle ammunition at that range even from such a heavy barrel. A K-22 revolver sighted-in for a 6-o'clock hold at 50 ft., using regular speed .22 long rifle ammunition and shooting on the regular 50-ft. NRA pistol target, is pretty well sighted-in for a center hold with BB caps at 35 ft. A 10-shot possible, mostly X's, was shot on the 50-ft. NRA rifle target at 35 ft. on the first attempt. At that range, few pistol shooters could discern the slightest difference between the results possible from BB caps and those from the finest .22 long rifle match ammunition.

The cartridge is easily loaded into most bolt-action rifles and into revolvers. It may give a little trouble in single-shot loading of semi-automatic weapons and some single-shot rifles which do not let the fingers easily maneuver the stubby cartridge into the chamber.

Chambers should be cleaned very thoroughly after firing BB caps. Otherwise loading and extracting difficulties are likely to result when the long rifle cartridge is used again, from the fouling ring left at the mouth position of the short case. A bristle chamber-cleaning brush was found especially helpful.

If either penetration safety or noise abatement is desirable on your home range, as it is on most, the BB cap merits consideration.

WILLIAM DRESSER

• THE 7X64

Saginaw, Mich.

Editor:

Popular in Europe, the 7x64 was brought to this country by many returning soldiers. Excellent Czech Brno rifles in this caliber have been imported in recent years. I have used one considerably since 1950. It has Mannlicher-type stock and double set triggers, and is beautifully finished.

As the name indicates, the cartridge is a 7 mm. with case 64 mm. (2.52") long. Reloading dies are made in this country. The ready availability of empties in .30-'06, .270, and .280 makes reloading simple. Full-length sizing (quite easy), trimming to the correct length of 64 mm., and then fire-forming are all that is necessary. (Apparently, however, not all 7x64's have exactly the same chambers and some caution must be used.) The .30-'06 case is slightly shorter than 64 mm. and does not have to be trimmed to be usable.

Bullets for the 7x64 are available in weights from 120 through 175 grs. I find

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FRANK R. MARTIN

• LOADING FOR POLICE

Anacortes, Wash.

Editor:

The man who wants to load a few hundred rounds now and then for his hometown police force may very well have all the equipment required.

There is a real demand for this worthwhile public service in most smaller cities and rural areas. The majority of our law-enforcement agencies are in the 5- to 12-man class, and the need is generally coupled with a chronic financial problem, so far as target practice cartridges are concerned, that makes economy imperative.

I have loaded for our local 8-man force for well over 10 years and with the possible exception of one single cavity mold I use nothing for reloading police ammunition that I would not own for my own .357 and .38 Special.

The average small town police officer will not do a great deal of shooting unless he is held to a required course of fire.

The revolver is only one of the tools of his trade, and is the least used of any of them. He will work to achieve what he considers adequate skill with the weapon—but the officer who fires a box a month is the exception.

Initially I made an honest effort to load according to what the men wanted. The results were a mess.

Any departure from normal bullet weight is not good practice. The reload must shoot very close to point of impact of the service round. Lighter bullets shoot low; heavier than standard shoot high. In the service revolvers with fixed sights there can be no holding a uniform sight picture if bullet weights are not close to standard.

Practical experience has shown that a bullet of from 155 to 160 grs. is within the limits, with a velocity of around 850 f.p.s. in the .38 Special. This eliminates a lot of very good bullets. The target shots' trick of loading different charges with the same bullet to preserve a constant sight picture is also out. There is no guarantee that the loads will be used at the intended distances. The short-range loads may well be used at 50-yds. or farther; the heavier stuff shot up in FBI-type hip shooting or

short-range rapid-fire.

Any special load that differs from standard should be identifiable at a glance. This means coding by bullet shape.

Never load in any case a load more powerful than the standard factory round in the caliber. You have no control over the gun it is to be fired in. A magnum load in a .38 Special case intended for some patrolman's heavy frame revolver might not ruin a Cobra or a Chief's Special, but it is an incident to be avoided at all costs.

A powder measure is a must for one who reloads in quantity. Pistol powders are fine grained and measure well in any of the measures I have tried. The secret is uniformity of operation.

Full-length resizing is recommended even though case life may be reduced somewhat. Primer pockets should be cleaned if they need it. Cases usually require cleaning as the men are not hand-loaders and do not have the habit of keeping them clean. Empties returned to store should be readied for reloading as soon as convenient. Cleaned and processed cases can be accumulated until you have a batch worth reloading. I generally try to load in batches of from 200 to 300.

Trimming is important but can be overdone. Sensible practice is to trim only those that are too long.

I use a 3-die setup and prime and expand as the second step. Other reloaders work with additional dies, but the test of the method is a satisfactory cartridge, not how the cartridge is loaded.

Chamfering, like trimming, should be done, but no more than needed.

Most loading will be a standard practice round but a load ballistically close to the regular factory cartridge. The powder had best be Unique or one of the standard pistol powders, Bullseye, No. 6, or 5066.

Unique is satisfactory in the .38 Special with 155- to 160-gr. bullets in loads of 4.5 grs., but it is noisy and does not burn well in short barrels.

The bulkiest powder of the 4 is 5066; a good powder, not quite as flexible as No. 6 or Bullseye in its loading.

No. 6 burns cleanest of all, gives good results in snub-nose barrels, and is less sensitive than Unique or 5066 as to bullet seating depth. All are good powders.

Unique is superior for heavy charges in standard cases but for standard and reduced loads I use Bullseye. It is the most flexible powder of all as to barrel length and charge weight. Also the most economical as charges are smallest for velocities attained, and least sensitive to seating depth within reason. No. 6 is very close to it in these respects. A charge of 3.2 grs. Bullseye with Ideal No. 358311 bullet gives near factory .38 Special velocity. The same charge behind the Hensley and Gibbs No. 51 is perhaps a better load. Either will do as a starting load, or 3.8 grs. of No. 6, or 4 grs. of 5066.

The load here is the Ideal No. 358311 bullet with 3.2 grs. of Bullseye. The Skagit County Sheriff's office uses 3.2 grs. of Bullseye and the H&G No. 51. Handloader for the Burlington force uses 4.5 grs. of Unique and Ideal No. 358311.

The round nose is a good accurate bullet, easy to cast, and not critical as to alloy. Many men prefer it because the round looks like the factory product and slips into the cylinder easily. Whether or not

this is an advantage depends on the viewpoint as these loads have a habit of getting mixed in with the service rounds.

The Hensley and Gibbs No. 51 hits harder, cuts a clean hole in paper, casts well, and makes up into a round readily recognizable for what it is. It can also be used in .357 cases and crimped in its crimping groove. Both bullets can be purchased commercially.

We have not had to use the commercial bullets as yet, but for many reloaders who do not have equipment for making bullets these are a must. Alloy is not critical. We use a mixture of lead, antimony, and tin from 1-12 to 1-15 hardness; mostly scrap lead and salvaged bullet metal, softened with pig lead if need be, and with enough tin to make it cast well.

Bullets are sized .358" for both .38 Special and .357. This works well with moderate loadings and with Lyman graphited lubricant we have had no leading in any .38 or .357 except in barrels that lead with factory ammunition.

A double-cavity mold makes sufficient bullets to keep me ahead of the game.

The .357 has a reputation for leading, but the Thompson gas-check loads do not lead in any Magnum I know of. A heavy charge of Unique can be used, but this seems rougher on cases than the mild 2400 loads. With the Thompson solid, 13.7 grs. of 2400 is a good shooting load; 14.5 grs. with the same bullet is nearer the real thing. Bullets are sized .358" and lubricated with graphited grease.

One can work up loads for any one gun with plain-base bullets, but the gas-check bullets are the only solution to the leading problem.

One last word to anyone starting one of these projects. Your box label should identify the cartridge as to caliber and bullet weight and intended use, date loaded, and that it is a reload.

O. R. DOANE

Try It This Way

A roundup of short 'thought starters' of value to all who are interested in guns and shooting. No payment is made for items used but name credit is given. No photograph or drawing necessary. The brief text must tell the story.

Mallet with hand dies

Use a plastic mallet for driving cases into a hand sizing die. It is easier than a vise, arbor press, or wooden block and hammer, and if the mallet is used only for this it will last for years.—W. E. WALKER

Target holder

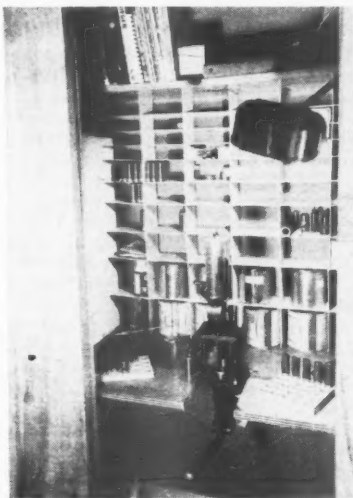
An almost windproof target holder is the cardboard carton used to ship paper stock to printers. These are about 2 ft. x 3 ft., and up to 6" deep, so targets on bottom are wind protected.—FRITZ SAMUELS

Removing primer pocket crimp

A "combination drill and countersink" as used in machine shops, with its tip broken or ground off, makes a good tool for chamfering out primer pocket crimp of military cases.—FRANK J. BILLA

"Here's how I did it"

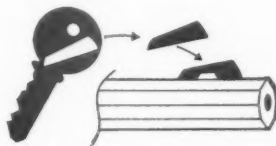
Payment made for all accepted items. A 'better way' with description and good photograph or drawing is the only requirement. Send us your 'better way'—now.



A single or double closet makes a fine reloading area when fitted with bench and suitable storage shelves. My bench is of 1" marine plywood, anchored with lag bolts to wall studs at sides and back. Thin plywood was used for shelving.—J. N. COSTON



To convert the Mannlicher straight-pull action for left-hand use, cut the bolt handle and bolt-handle root from bolt sleeve with saw or lathe parting tool. Then reverse handle 180° and silver solder or braze in place. Remove bridge across lower rear of bolt handle root and solder or braze a fillet into opening at lower front of bolt handle root to prevent cocking piece from going too far forward. Face off rear surface of receiver bridge to let bolt go fully forward and home when closed. Safety screw in bolt root is reversed after drilling and tapping new hole. Additional modifications required are duplication of cocking piece safety engaging cam and new safety slots on right side of receiver and in cocking piece shaft.—MARK K. BENENSON



'Kentucky' type knifeblade rifle sights are easily made from discarded German silver keys. File and polish sidewalls to remove markings, then solder blade to sight base.—JAMES M. CALLAN

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NRA NEWS & EVENTS

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ASSOCIATION MATTERS

• NATIONAL MATCHES

Care should be taken to insure correct category on entry cards

The 1960 NRA National Matches program provides place and classification awards for both individual and team matches. The popular category award plan will make it possible for a competitor to compete for classification awards with others of his separate category—Civilians, Police, Service, Reserve, Junior, etc.

When making entry the individual competitor must designate the category within which he is eligible to compete. The pistol matches are divided into Regular Service, Civilian, Reserve, and Police. Smallbore matches have separate categories for Regular Service, Civilian, and Junior. High power rifle classification awards are made for Regular Service, Civilian, and Reserve categories.

When a team captain enters a team he must certify to the category of each firing member. The category must be the same as used throughout the individual fired matches by each team member.

Members of teams selected for the National Matches should be extremely careful to see that all are eligible for competition in the same category.

When a team's firing members represent more than one category, the team may fire only for place awards in the NRA team matches.

• OLYMPIC TRYOUTS

June 13 is deadline for firing in preliminary tryouts

The schedule of preliminary tryouts for the selection of shooters for U. S. representation at the 1960 Olympic Games is listed below. Detailed information concerning the tryout program appears on page 22 of the February 1960 RIFLEMAN. Sponsors desiring to conduct a tryout should bear in mind that it must be completed by June 13, and that the closing date for all tryout announcements in **THE RIFLEMAN** is Apr. 30. Shooters should request program details from the persons listed at the various locations.

Patuxent River, Md., Apr. 30-May 1—Free-rifle, smallbore rifle. CPO H. D. Barrett, P. O. Box 376, U. S. Naval Air Station, Patuxent River.

Patuxent River, Md., May 7-8—Free-pistol, rapid-fire pistol. CPO H. D. Barrett, P. O. Box 376, U. S. Naval Air Station, Patuxent River.

Ft. Benning, Ga., May 7-8—Free-rifle, smallbore rifle, free-pistol, rapid-fire pistol. Lt. Col. B. C. Boatright, G-3 Sec., USAIC, Ft. Benning.

Waukegan, Ill., May 10—Free-pistol; May 11—Rapid-fire pistol; May 12—Smallbore rifle; May 13—Free-rifle. James L. Wade, Waukegan International Shooting Association, P. O. Box 256, Waukegan.

Quantico, Va., May 14—Free-rifle, smallbore rifle, free-pistol, rapid-fire pistol. Maj. John M. Jagoda, USMC, P. O. Box 212, Quantico.

Sharon, Mass., May 21-22—Free-pistol. Robert Baxter, Sharon Fish & Game Club, 46 Norton Dr., Norwood.

Murrysville, Pa., May 21-22—Smallbore rifle. William R. Funk, R. D. #1, Box 2, Murrysville.

Vernon Township, N. J., May 28-30—Free-rifle, smallbore rifle, free-pistol, rapid-fire pistol. Carl E. Kastner, 1 Owen Dr., Maplewood.

Cheyenne, Wyo., June 4-5—Free-rifle. Howard A. Wagner, Wyoming State Rifle Association, 1414 Cosgriff Ct., Cheyenne.

Miami, Fla., June 11-12—Free-pistol, rapid-fire pistol. G. B. Hardie, Jr., Palmetto Pistol Club, 5830 S. W. 73rd St., South Miami.

Bridgeport, Nebr., June 11-12—Smallbore rifle. Bridgeport Rifle & Pistol Club, Bill J. Barnes, Secretary, Bridgeport.

Hunter Safety

NEW HAMPSHIRE

New Hampshire began its Hunter Safety Program in 1953. The training was conducted almost entirely in the public schools because of permissive legislation which made it possible to do so. It is now felt that even more students could be trained by placing more emphasis on the volunteer sportsman instructor.

In late 1959, a Steering Committee was established. It comprised NRA training counselors, sportsmen, and members of the New Hampshire Fish & Game Commission. A cooperative agreement for the appointment of NRA instructors was worked out and the program began to move in high gear.

The first Hunter Safety Clinic was held in March under the guidance of the Steering Committee at Dumbarton with more than 100 persons receiving instructor training.

The number of students graduated from Hunter Safety Courses throughout the country is given below:

Month of March	15,611
Grand total to date	860,722

• JUNIOR & TYRO SCHOOL

National Match Junior School will again include instructor training

The Junior and Tyro School, National Matches, Camp Perry, Ohio, will open at 8 A.M. on Aug. 8 and continue through Aug. 11. These dates apply to the shooting portion of the School.

Instructor trainees will report 2 days earlier for preliminary training and will then serve as instructors and line coaches for small groups of students during the shooting portion of the School. The instructor phase begins at 8 A.M., Aug. 6.

As has been true in the past, there will be no charge for any part of the instruction. Ammunition and targets will be furnished free of charge.

Applicants for instructor training should write Program Division, NRA Headquarters, for further details since preliminary registration is required. All applicants must be individual NRA members. The course is designed primarily for applicants for the Certified Rifle Instructor rating, but a few trainees for Assistant and Apprentice ratings will be accepted.

Further details concerning the School will appear in a future RIFLEMAN and in the National Matches Program.

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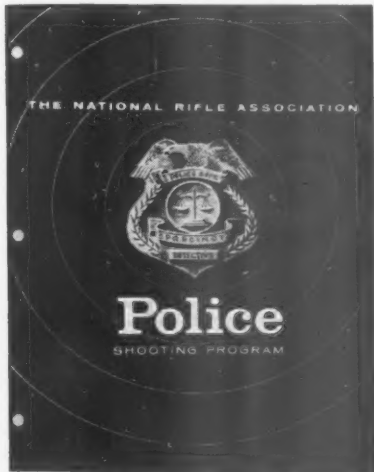
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• POLICE PROGRAM

New training and qualification program offered to police

For many years police officers have been interested in the skillful use of firearms. Many police agencies and individual officers have been in the forefront of organized shooting.



The NRA has a new program of police shooting and recognition which is closely geared to the practical instruction and use of police firearms and competition with them. Police departments may now register training courses with the NRA. A new Certified Police Firearms Instructor designation has been created. Police qualification courses may be registered for recognition by the NRA. Police tournaments, whether standard or combat courses, may be registered, and a special qualification rating insignia is available.

Police Training Courses—Any police agency which is affiliated with the NRA may register its training courses. Course registration conditions are flexible in order that agencies large and small may achieve recognition by the NRA. This registration will make it possible for the NRA to offer suggestions and actual in-person assistance, particularly in instructor training. The services of the NRA will also be available to police departments and agencies in planning courses where training has not previously been given.

Certified Police Instructors—Police instructor designations are to be made in 2 levels—Certified and Assistant. Designation will be made on application. The applicant must be a member of the NRA and must actually be engaged in police firearms instruction work at the time of application. The rating is renewable annually but may be continued by an officer after changing to other duties.

Police Qualification Insignia—Insignia appropriate for wear on police uniforms have been designed. Qualification awards will be available to police departments who register an acceptable qualification course of fire with the NRA. Acceptable courses of fire will not be restricted as to the ranges, times, or targets used but will be designated in accordance with their requirement for practical skill with the

MAY 1960

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BY RICHARD ARNOLD

In this authoritative, fully illustrated book, the author traces the history of these weapons and offers expert professional advice on the choice of weapons for clay target shooting, wildfowling, and pest destruction; the cartridge; the use of variable choke attachments; and the use of the weapon with rifled slug for medium game shooting. In addition, there is a comprehensive survey of repeating shotguns in use throughout the world and information on the various shotgun loads in use in different countries.

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police revolver and other police firearms.

Sanctioned Police Matches—Police tournaments may now be operated as registered or approved tournaments and may include combat-type courses of fire as well as the standard National Match, NRA Short, Camp Perry, and Gallery Courses.

Standard regulations for registered and approved tournaments will apply. While no nationally recognized standard police course of fire exists at the present time, it is expected that standard courses will be developed. When such standardization has become a reality, National records can be considered.

The NRA Police Shooting Program has been designed to fill an obvious gap in the shooting program for police officers and to assist in the stimulation of even better marksmanship among the police officers of the nation.

For further details concerning this program, write Program Division, National Rifle Association.

• TRAPSHOOTING TEAM

Dates and locations for tryouts for 1960 U. S. Olympic Team

The Amateur Trapshooting Association has announced the dates and locations of preliminary tryouts for the selection of trapshooters for the 1960 U. S. Olympic Team as follows:

Region I—Central Region: Illinois, Indiana, Iowa, Michigan, Minnesota, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin—May 29-30—Maywood Gun Club, Chicago, Ill.

Region II—Eastern Region: Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, West Virginia, Pennsylvania, Rhode Island, Vermont—June 11-12—Pine Valley Gun Club, Clementon, N. J.

Region III—Southwestern Region: Arkansas, Colorado, Kansas, Louisiana, Missouri, New Mexico, Oklahoma, Texas—June 25-26—Houston Gun Club, Houston, Tex.

Region IV—Western Region: Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii—June 10-11—Sacramento Trap Club, Sacramento, Calif.

Region V—Southern Region: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia—June 30, July 1-3—Ft. Benning, Ga.

Final Tryouts

Final tryouts will be held at Ft. Benning, Ga., on July 29-31. The contestants who shoot the 5 high total scores at each of the Regional tryouts shall be eligible for the final tryouts. The final tryouts shall consist of each contestant firing at 100 targets each day for 3 days, under ISU rules and over International-type trap installations. The 2 contestants scoring the highest total on the 300 targets shall be selected to represent the U. S. in the 1960 Olympic competition. The third high-scorer shall be an alternate to replace either of the top 2 shooters who

for any reason is unable to make the trip. All tryouts shall be under the supervision of the Amateur Trapshooting Association of America. All attendance and competition in tryout events will be at the expense of the individual shooter.

Eligibility

Eligibility for participation in the 1960 Olympic Games as a member of the U. S. Shooting Team is limited to males, at least 2 years a U. S. citizen, who come within the definition of an amateur. Membership in any club or association is not a requirement for Olympic tryout events.

Specifications

As fired in the Olympic Games, trapshooting events are conducted under the following conditions:

Arms and Ammunition: Shotgun with a maximum caliber of 12-ga. May be loaded with 2 cartridges. Maximum charge of shot, 36 grams (1.27 ozs.). Maximum size of shot, 2.5 mm. (approximately #7).

Number of Targets: 200, shot 100 on each of 2 consecutive days. The competition is carried out by groups of 6 men shooting 4 series of 25 targets on each day. For additional information inquiries should be addressed to Maynard B. Henry, 629 South Hill St., Los Angeles 14, Calif.

• STATE MATCHES

No entry fee is required and team members receive brassards

Last year the NRA started a series of new State Team Postal Matches in conjunction with outdoor state championships (high power rifle, smallbore rifle, and pistol). At each NRA-registered state championship the high 10 shooters may be selected from scores fired in a predetermined match. These 10 shooters form the state team and assemble at the end of the tournament and fire the team match, using an established standard course of fire.

Team scores are listed on a reporting form, witnessed by the Executive Officer and Official Referee, and sent to the NRA. The NRA furnishes a special brassard to each member of the team. These brassards are sent to the state championship sponsor in advance and can be picked up by team members at the tournament.

At the end of the season a bulletin of standings is published and prizes awarded to the top teams. As notice is received by NRA from sponsors, indicating intent to hold an outdoor state championship, full information is furnished outlining the State Team Postal Match regulations. There is no entry fee. Every outdoor state championship should include this important match in their program. Information has already been furnished each NRA-affiliated state association.

• 1600 CLUB MEMBERS

More 1600 Club charter members found in past records

A partial list of the smallbore rifle shooters who had fired a 1600 score for any aggregate of 40 shots each at 50 yds., 50 meters, 100 yds., and the Dewar Course was carried in the February 1960 RIFLEMAN.

Since the February listing, additional

names have been found and reported by competitors. Some of these go back many years. A total of 90 members of the 1600 Club is now on the records. Below is a list of the charter members who were not included in the February listing.

- G. L. Anderson, U.S. Army
- Victor Auer, Brea, Calif.
- James A. Bell, Santa Monica, Calif.
- William L. Bell, Vandergrift, Pa.
- Robert E. Boydston, Billings, Mont.
- R. N. Burkhart, Hermosa Beach, Calif.
- W. Dean DeLaMater, Parkersburg, W. Va.
- Rene J. Dognaux, Jr., Vincennes, Ind.
- John R. Duncan, Florence, Ala.
- Larry E. Ellison, Wellston, Ohio
- Floyd M. Gibson, Houston, Tex.
- Virgil L. Hamlin, Jr., Denver, Colo.
- George R. Handel, Pittsburgh, Pa.
- Walter A. Jonasen, Boulder City, Nev.
- James H. Jones, U.S. Army
- Cecil H. Kelley, Rockwood, Tenn.
- John L. Kelley, Jr., Fort Worth, Tex.
- Robert B. Kennerly, Asheville, N. C.
- C. H. Kline, Lock Haven, Pa.
- Forrest O. Kline, Pasadena, Calif.
- Mrs. Lee Ann Lea, Minneapolis, Minn.
- Paul R. Leverich, Fullerton, Calif.
- Thorvald Lund, Alliance, Nebr.
- Gordon P. McAllister, Mercer Island, Wash.
- Laurence F. Moore, Aberdeen, Md.
- Robert K. Moore, Claysville, Pa.
- John Moschkau, Waterloo, Iowa
- Harvey Mutch, Enterprise, Oreg.
- Roy Oster, Upper Darby, Pa.
- William Patriquin, Willoughby, Ohio
- Don R. Paugh, Minneapolis, Minn.
- Cleo K. Pfeiderer, Galion, Ohio
- Joseph M. Phillips, Jr., Lynchburg, Va.
- Clifford C. Pierson, Sun Valley, Calif.
- Tommy G. Pool, U.S. Army
- Craig Rider, New Kensington, Pa.
- Lynn H. Roberson, McAlester, Okla.
- Edward C. Sachs, North Chicago, Ill.
- Loren W. Samsel, Sr., Dallas, Tex.
- Earl M. Saunders, Louisville, Ky.
- Bernard Simpson, Charleston, W. Va.
- Frank O. Smith, Arlington, Va.
- Joe H. Specht, Jr., Fresno, Calif.
- Ray H. Steele, Denver, Colo.
- Joseph E. Steffey, Paris, Ill.
- George J. Stidworthy, Jr., Prescott, Ariz.
- Dean H. Stone, Battle Creek, Mich.
- J. Eric Sundstrom, Jr., Glen Ridge, N. J.
- Lee A. Swem, Portland, Oreg.
- John Ungar, South Euclid, Ohio
- August T. Westergaard, Sloan, Iowa
- Charles C. Whipple, Somerset, Pa.
- Alonzo B. Wood, Elbridge, N. Y.
- Clarence L. Wood, La Mirada, Calif.
- Verle F. Wright, Jr., U.S. Army

Scores must be fired at NRA-registered tournaments and may be any combination of sights in individual competition. Each member of the 1600 Club receives a special desk pen set with his name engraved on it.

• **NEW 250 CLUB**

Executive Committee authorizes new high power rifle club

During the 1960 NRA Annual Meetings the Executive Committee authorized the establishment of a 250 Club for high power rifle shooters. To be included in this distinguished list the individual must fire, or have fired, a score of 250x250 over the National Match Course in an NRA-registered tournament or a match approved by the National Board. The National Match Course is 10 shots, 200 yds., slow-fire, standing; 10 shots, 200 yds., rapid-fire, standing to sitting or kneeling; 10 shots, 300 yds., rapid-fire, standing to

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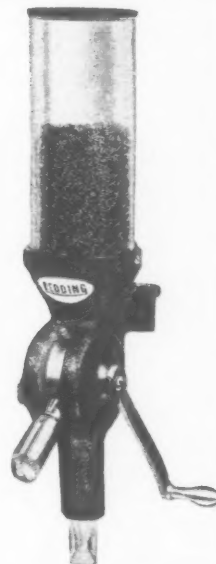
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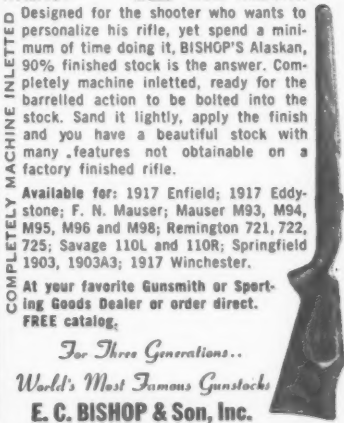
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NRA NEWS & EVENTS

prone; and 20 shots, 500 or 600 yds., slow-fire, prone. Metallic sights must be used.

The NRA is making a search of its records for 250 shooters and will publish a list of them when it has been completed. Some time may be saved if shooters who have fired a 250 score will advise the NRA giving date and location. They will each receive a desk pen set with the figures "250" embedded and the individual's name engraved on a plate on the top.

• CAMP MATCHES

Events for cal. .22, CO₂, pneumatic, and spring-type air rifles

The annual NRA Summer Camp Rifle Matches have been expanded for 1960 to include a full schedule of events, both team and individual, for cal. .22 at 50 ft.; CO₂, pneumatic, or spring-type air rifle, with rifled barrel at 25 ft.; and spring-type air rifle with smooth bore at 15 ft. Boy and girl campers are divided into the following groups—Senior Campers, under 19 years of age; Junior Campers, under 14 years of age; and Sub-Junior Campers, under 10 years of age. Every camp can now include rifle shooting for its campers. If space is not available for a suitable range for firing the cal. .22 rifle, provide a 25-ft. or 15-ft. air rifle range. There is a full program of qualification awards for each distance as well as the important annual Summer Camp Postal Match. Programs covering this event will be mailed to all NRA-affiliated camps about the middle of May. Any camp not receiving its copy should request one from the NRA.

• SUMMER LEAGUES

New, enlarged league schedule sent to all affiliated clubs

About the first of May, the 1960 Summer League program will be mailed to all NRA-affiliated clubs. Under the new, enlarged league schedule there is a plan suitable for every club. It can be a league of teams or a league of individual shooters, for high power rifle, smallbore rifle, or pistol. Shooting may be indoor or outdoor. It may be entirely within one club or several clubs may band together.

League shooting is one of the best methods of keeping a club active with a good competitive program which continues for the entire season. The cost is reasonable and awards are plentiful. Even if the shooting starts before the NRA program is received the league may still be registered. All scores are used for NRA classification. Each league establishes its own course of fire and schedule of matches and regulations. Additional copies of the program are available from the NRA.

• INT'L SHOOTING FUND

Financial support of teams representing the United States in International shooting competitions is gained principally from the NRA International Shooting Fund. This fund was established in 1952 to meet the expenses of fielding U. S. teams.

NRA members wishing to contribute to the fund individually or as tournament sponsors or club members may do so. Organizations frequently include in their

tournament programs a match from which the entry fees are turned over to the International Shooting Fund. These matches need not be fired over an International course. An International Shooting Fund Match may be a single fired match or an aggregate.

Donations received at NRA Headquarters earmarked for the International Shooting Fund will be deposited in this special account.

During March the following contributions and match entry fees were added to the NRA International Shooting Fund.

Col. F. N. Norris, Washington, D. C. \$10.00

Miscellaneous 42.95

ENTRY FEES

Miscellaneous 12.00

TOTAL \$64.95

DECEASED LIFE MEMBERS

It is with regret that we learn of the death of these NRA Life Members.

Yorke S. Blanchard, Millerton, N. Y.
Isaac B. Carrico, Elizabethtown, Ky.
Clayton E. Cole, Rahway, N. J.
George Gould, Minneapolis, Minn.
William B. Harlow, Palo Alto, Calif.
M. H. Holben, Cooper Landing, Alaska
Ernest C. Hubbard, Hempstead, N. Y.
Frank Kitts, Portales, N. Mex.
Charles A. Moran, Derby, Colo.
P. G. Peters, Douma, Lebanon
R. E. Schoenberger, Cleveland, Ohio
Edwin P. Vary, Flint, Mich.
Louis T. Walden, Cleveland, Ohio
Melvin M. White, Silver City, N. Mex.

Coming Events

TOURNAMENTS

Listed here are all registered and approved tournaments for the next 3 months. In order to be listed, dates must be authorized by NRA by the first of the month preceding publication.

(A)—Designates approved tournaments. All others are registered.

NATIONAL MATCHES

July 26-Aug. 28—OHIO (Camp Perry)
July 26-27—International-Type Matches
July 28-30—Small Arms Firing School-Pistol
July 31-Aug. 5—Pistol Matches
Aug. 6—International Smallbore Match
Aug. 7-11—Smallbore Rifle Matches
Aug. 8-11—Junior & Tyro School
Aug. 13—International-Type 300-Meter Match
Aug. 13—Muzzle-Loading Matches
Aug. 14-17—Small Arms Firing School-Rifle
Aug. 18-28—High Power Rifle Matches

REGIONAL CHAMPIONSHIPS

SMALLBORE RIFLE

May 14-15 FLORIDA (Dania)—Southeastern. T. C. Rossman, 2511 Filmore St., Hollywood.
21-22 MARYLAND (Aberdeen Proving Ground)—Middle Atlantic. Laurence F. Moore, 644 Bel Air Ave., Aberdeen.
28-29 WASHINGTON (Seattle)—North Pacific. Bob Dunn, 10726—25th S. W., Seattle.
June 4-5 NEW MEXICO (Clovis)—Far Southwestern. Lee Shoemate, Box 401, Clovis.
11-12 OHIO (Akron)—Mid Central. P. E. Stokes, 187 Klinger St., Akron.
25-26 CALIFORNIA (Fresno)—South Pacific. H. Wright, 4663 East Olive, Fresno.
25-26 TEXAS (Dallas)—Southwestern. A. Frankel, 10568 Ferguson Rd., Dallas.

July

2-3 COLORADO (Denver)—Rocky Mountain. L. M. Higgins, 135 S. Hooker St., Denver.
2-3 TENNESSEE (Chattanooga)—South Atlantic. W. L. Gaither, Jr., Rt. 2, Box 424, Rossville, Ga.

THE AMERICAN RIFLEMAN

NRA NEWS & EVENTS

9-10 CONNECTICUT (East Wallingford)—North-eastern. H. K. Fowler, Middlefield.
 9-10 MONTANA (Laurel)—Northwestern. J. R. Olson, 619 Lewis Ave., Billings.
 16-17 INDIANA (Bristol)—Midwestern. G. R. Horner, 1115 N. Huey St., South Bend.
 16-17 OREGON (Medford)—Central Pacific. D. J. Bolton, 527 Spencer Ave., Medford.
 30-31 MINNESOTA (Coon Rapids)—Great Lakes. D. Meyers, 3204 Edmund Blvd., Minneapolis.
 30-31 NEW YORK (Auburn)—East Central. D. R. Johnson, Jr., 326 N. Seward Ave., Auburn.

PISTOL

May
 21-22 ARIZONA (Tucson)—Far Southwestern. C. J. Castleman, 1008 E. Glenn St., Tucson.

June
 3-5 CALIFORNIA (San Diego)—South Pacific. A. B. Davis, 40th & A Sts., San Diego.
 18-19 INDIANA (South Bend)—Midwestern. G. W. Zubler, 1001 N. Johnson St., South Bend.
 18-19 WASHINGTON (Tacoma)—North Pacific. N. E. Duncan, 3823 E. Kay St., Tacoma.
 24-26 FLORIDA (Jacksonville)—Southeastern. J. W. Thomas, P. O. Box 4067, Jacksonville.

July
 2-3 ALASKA (Fairbanks)—Alaskan. H. Ed-munds, Box 1618, Fairbanks.
 2-4 NEW YORK (Rochester)—East Central. D. C. Wardin, 158 Beresford Rd., Rochester.
 7-4 TEXAS (Fort Worth)—Southwestern. H. H. Pricer, 4104-5th Ave., Ft. Worth.

Tournaments and Competitors

The figures listed are for the first 2 months of 1960. There is a drop in number of tournaments and competi-tors over the same period last year. The drop results from the 1959 Junior and Collegiate Sectional Tournaments having been scheduled in February and March, while they may be fired any time from Jan. 1 to May 1 in 1960.

Type Competition	Tourna- ments	Competi- tors	Average per Tour- nament
Smallbore Outdoor			
Prone	14	461	33
Smallbore Outdoor Position	7	119	17
Smallbore Indoor	95	5,709	60
High Power Rifle	17	1,250	74
Pistol Outdoor	66	3,222	49
Pistol Indoor	67	2,855	43
TOTALS AND AVERAGES	266	13,616	51

2-4 VIRGINIA (Quantico)—Middle Atlantic. Maj. Jagoda, Box 212, Quantico.
 9-10 COLORADO (Denver)—Rocky Mountain. H. F. Kline, 111 South Lowell Blvd., Denver.
 15-17 MASSACHUSETTS (North Attleboro)—Northeastern. Col. R. C. Snyder, Box 772, Rt. 2, North Attleboro.
 16-17 KENTUCKY (Ft. Knox)—South Central. M/Sgt. W. D. Campbell, Weapons Dept., USAARMS, 47317, Ft. Knox.
 22-24 TEXAS (El Paso)—Border States. B. Sul-livan, P. O. Box 232, El Paso.
 23-24 MINNESOTA (Rochester)—North Central. R. V. Smith, 106 First Ave., N. E., Rochester.

HIGH POWER RIFLE

May
 27-29 TEXAS (Ft. Bliss)—Far Southwestern. 1st Lt. R. L. Jones, P. O. Box 6599, Ft. Bliss.
 28-29 GEORGIA (Ft. Benning)—Southeastern. Lt. Col. G. H. Huppert, P. O. Box 1469, Ft. Benning.
 28-30 IDAHO (Boise)—Northwestern. K. E. Black, 3905 Catalina Rd., Boise.
June
 11-12 UTAH (Ft. Douglas)—Rocky Mountain. R. D. Walker, 283 West 550 N., Clearfield.

MAY 1960

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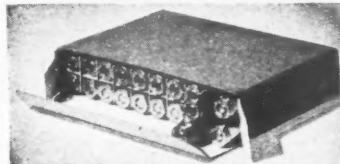
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 Lyman All-American 21xX...\$34.00; 3X... 35.50
 4X...\$40.00; 6X...\$43.50; 8X-10X... 57.50
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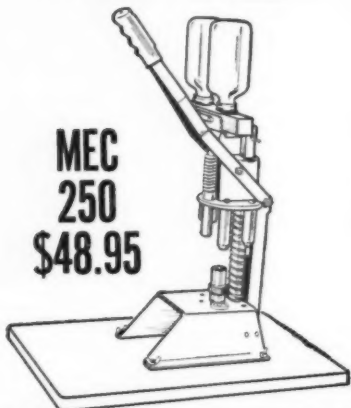
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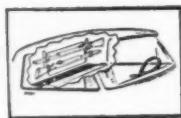
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NRA NEWS & EVENTS

- 18-19 KENTUCKY (Ft. Campbell)—South Central. W. S. Oakley, 203 Rebecca Lane, Clarksville, Tenn.
- 24-26 CALIFORNIA (Camp Matthews)—South Pacific. J. A. Lindsey, Wpns. Trng. Bn., MCRD, San Diego.
- 25-26 MINNESOTA (Camp Ripley)—North Central. Dr. K. C. Erickson, 1658 Stanbridge Ave., St. Paul.
- 25-26 VIRGINIA (Quantico)—Middle Atlantic. Maj. Jagoda, Box 212, Quantico.
- July**
- 2-3 ALASKA (Fairbanks)—Alaskan. H. Edmunds, Box 1618, Fairbanks.
- 2-3 MISSOURI (Ft. Leonard Wood)—Southwestern. Capt. P. R. Montgomery, G-3 Marksmanship Div., Ft. Leonard Wood.
- 15-17 NEW JERSEY (Ft. Dix)—Northeastern. Capt. W. G. Butler, G-3 Marksmanship Coordinator, Ft. Dix.
- 16-17 ILLINOIS (Springfield)—Midwestern. J. R. Cooney, 618 S. Park, Streator.
- 22-24 CALIFORNIA (Mare Island)—Central Pacific. J. D. Thompson, Marine Barracks, Vallejo.
- 23-24 NEW YORK (Ft. Niagara)—East Central. R. E. Latta, 35 Burbank Terrace, Buffalo.

JUNIOR OUTDOOR POSITION REGIONALS

- May**
- 7 ARIZONA (Phoenix)—B. Avery, 2034 E. Bellevue, Phoenix.
- 8 MARYLAND (Baltimore)—G. F. Fangmann, 8219 Harris Ave., Baltimore.
- 14 HAWAII (Wailuku, Maui)—C. K. C. Leong, Baldwin High School.
- 15 MICHIGAN (Waterford)—R. M. Gubbins, 16249 Buckingham Rd., Birmingham.
- 21 TEXAS (Fort Worth)—J. L. Kelley, P. O. Box 3007, Fort Worth.
- 21 MINNESOTA (Minneapolis)—J. A. Erickson, 3416 35 Ave., South, Minneapolis.
- 21 KENTUCKY (Louisville)—L. P. Aker, 110 Woodmore, Louisville.
- 21 NORTH CAROLINA (Conover)—K. H. Kaylor, Box 7, Conover.
- 21-22 PENNSYLVANIA (Dauphin)—J. W. Bostian, 29 E. Main St., Shiremanstown.
- 22 VIRGINIA (Manassas)—R. Perkins, 2427 N. Roosevelt, Arlington.
- 22 MONTANA (Laurel)—J. R. Olson, 619 Lewis Ave., Billings.
- 28 CALIFORNIA (Brea)—R. J. Kauble, 1012 N. Ferndale, Fullerton.
- 28 OREGON (Clackamas)—C. W. Smith, 803 N. E. 68th Ave., Portland.
- 28 NEW YORK (Auburn)—F. R. Volk, 26 Richardson Ave., Auburn.
- 29 COLORADO (Denver)—W. G. Edwards, 955 Euclid Way, Denver.
- 29 NEW YORK (Albany)—H. W. Ristau, 28 David Avenue, Troy.

- June**
- 11 NEW JERSEY (Roseland)—W. A. Carr, P. O. Box 557, Roseland.
- 12 MASSACHUSETTS (Sudbury)—J. R. Roehrig, 81 Moore Rd., R. R. #3, Sudbury.
- 18 PENNSYLVANIA (Washington)—H. M. Malik, Sr., 1020 Fayette St., Washington.
- 19 NEBRASKA (Scottsbluff)—C. M. Larsen, 1500 S St., Gering.

CANCELLED

May 7, WASHINGTON (Tacoma)—J. M. Hansen, 1622 So. 113th, Tacoma.

ARMY AREA & ALL-ARMY MATCHES

(Open to civilians but not NRA registered or approved unless otherwise indicated.)

- May**
- 1-7 KANSAS (Ft. Riley)—Fifth U. S. Army, Commanding General, Attn: Marksmanship Director.
- 1-14 NEW JERSEY (Ft. Dix)—First U. S. Army, Commanding General, Attn: Marksmanship Director.

- September**
- 4-9 ALASKA (Ft. Richardson)—U. S. Army Alaska, Commanding General, Attn: Marksmanship Director.

U. S. MARINE DIVISIONAL MATCHES

- May**
- 9-14 HAWAII (Marine Barracks, USNB, Pearl Harbor)—Pacific Division Matches, Commanding General, Attn: Marksmanship Director.
- 9-14 NORTH CAROLINA (MCB, Camp Lejeune)—Eastern Division Matches, Commanding General, Attn: Marksmanship Director.
- 16-21 CALIFORNIA (MC Recruit Depot, San Diego)—Western Division Matches, Commanding General, Attn: Marksmanship Director.

STATE CHAMPIONSHIPS

SMALLBORE RIFLE

- May**
- 1 UTAH (Layton)—R. D. Walker, 283 W. 550 N., Clearfield.

- 1 NEBRASKA (Omaha)—Eastern Section. S. DiMauro, 5312 A St., Omaha.
- 1 NEBRASKA (Scottsbluff)—Western Section. C. M. Larsen, 1500 S St., Gering.
- 1 OHIO (Dayton)—Junior. J. S. Friddell, 511 Continental Blvd., Toledo.
- 1 SOUTH DAKOTA (Pierre)—R. W. Scarborough, Hayes.
- 1 DELAWARE (Bridgeville)—Position. J. Blades, Bridgeville.
- 14 MICHIGAN (Waterford)—Michigan State Junior Position. R. M. Gubbins, 16249 Buckingham Rd., Birmingham.
- 14 WASHINGTON (Wenatchee)—Washington State Junior Position. Mrs. H. Hutchinson, Jr., 915 S. 5th Ave., Pasco.
- 14-15 RHODE ISLAND (Lonsdale)—T. Truesdale, 119 Japonica St., Pawtucket.
- 21-22 OKLAHOMA (Ponca City)—E. C. Olinger, 1601 Monument Rd., Ponca City.
- 22 MONTANA (Missoula)—Position. Mrs. D. Jones, 410 E. Beckwith Ave., Missoula.
- 28-29 TENNESSEE (Knoxville)—E. R. Smith, 4609 W. Lincoln Circle, Knoxville.

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- June**
- 4-5 NEW JERSEY (Vernon Township)—G. Rayner, 642 Elm St., Roselle.
- 4-5 WYOMING (Casper)—A. L. Haller, 1105 E. 17th St., Casper.
- 11-12 NORTH CAROLINA (Conover)—F. M. Molt, Box 5134, Asheville.
- 11-12 ALABAMA (Tarrant)—R. L. Best, 1028 Green St., Tarrant.
- 11-12 KENTUCKY (Louisville)—J. R. Keller, 833 Parkway Dr., Louisville.
- 12 DELAWARE (Bridgeville)—J. Blades, Bridgeville.
- 19 MINNESOTA (Coon Rapids)—D. Meyers, 3204 Edmund Blvd., Minneapolis.

- July**
- 2-3 NEW YORK (Canandaigua)—B. J. Beach, 314 Eaglehead Rd., East Rochester.
- 2-3 OHIO (Akron)—R. J. Kempf, 429 N. Collett St., Lima.
- 3-4 IDAHO (Twin Falls)—G. Sanborn, P. O. Box 681, Twin Falls.
- 9-10 TEXAS (Austin)—W. F. Peale, Jr., 1808 Travis Heights Blvd., Austin.
- 10 OHIO (Sidney)—Ohio State Junior. J. S. Friddell, 511 Continental Blvd., Toledo.
- 16-17 UTAH (Salt Lake City)—R. D. Walker, 283 W. 550 N., Clearfield.
- 16-17 VIRGINIA (Quantico)—Secretary. MCS Rifle & Pistol Club, P. O. Box 212, Quantico.
- 31 MAINE (Damariscotta)—Col. S. Yeaton, Civil Defense Dir., State House, Augusta.

HIGH POWER RIFLE

- May**
- 1 ARIZONA (Ft. Huachuca)—D. B. Sheridan, 928 S. 19th Ave., Phoenix.
- 7-8 FLORIDA (Camp Blanding)—Capt. C. C. McCormick, SSC FARG, State Arsenal, St. Augustine.
- 13-15 TEXAS (Ft. Hood)—D. Ford, 510 Hermine, San Antonio.
- 14-15 TEXAS (Ft. Bliss)—New Mexico State. Capt. W. M. Lax, 210 Anniston Ave., White Sands Missile Range, N. Mex.
- 21-22 NEVADA (Hawthorne)—T. Sturtevant, 1207 Nixon Ave., Reno.
- 21-22 NEW YORK (West Point)—D. C. Warden, 158 Beresford Rd., Rochester.
- 28-29 VIRGINIA (Quantico)—Secretary. MCS Rifle & Pistol Club, P. O. Box 212, Quantico.

- June**
- 4-5 COLORADO (Ft. Carson)—J. Guitar, III, 2165 Main, Durango.
- 10-12 MICHIGAN (Camp Grayling)—E. E. Brehm, 4917 Chase Rd., Dearborn.
- 11-12 MARYLAND (Ft. George G. Meade)—F. A. Neubauer, 272 N. Hilton St., Baltimore.

THE AMERICAN RIFLEMAN

NRA NEWS & EVENTS

18-19 IDAHO (Boise)—E. L. Colson, P. O. Box 1121, Boise.
 18-19 NORTH CAROLINA (Cherry Point)—AGY/Sgt. H. F. Bercaw, Box 168, Havelock.
 25-26 TENNESSEE (Oak Ridge)—W. T. Collins, 1012 Robin Lane, Oak Ridge.
 25-26 KANSAS (Fl. Riley)—R. H. Baker, 131 E. 12th St., Junction City.
 26 MONTANA (Butte)—J. T. Jennings, 815 W. Diamond St., Butte.
 26 IOWA (Des Moines)—H. Smith, 405 E. 2nd St., Des Moines.

July
 9-10 OHIO (Camp Perry)—R. F. Williams, 762 Ronbet Dr., Loveland.
 10 WISCONSIN (Camp Douglas)—L. G. Reinhard, 418 N. Monroe St., Watertown.
 23-24 DELAWARE (Bridgeville)—J. Blades, Bridgeville.
 23-24 WASHINGTON (Monroe)—K. Bielser, P. O. Box 318, Everett.

PISTOL

May
 1 NEW YORK (Binghamton)—Northern Section. Dr. L. R. Derby, 25 Webster St., Binghamton.
 1 INDIANA (Muncie)—J. A. Wood, 3100 S. Jefferson St., Muncie.
 1 PENNSYLVANIA (New Castle)—M. Krueger, 1225 Randolph St., New Castle.
 1 WISCONSIN (Milwaukee)—T. H. Leister, 706 Lakeview Ave., South Milwaukee.
 7-8 CONNECTICUT (Rocky Hill)—G. G. Ledder, West St., Rocky Hill.
 7-9 & 14-16 NEW YORK (Bronx)—S. Gold, 1331 Leland, Bronx.
 21-22 NEBRASKA (Omaha)—H. J. Shouse, 4339 Saratoga St., Omaha.
 27-29 TEXAS (Austin)—W. M. Streckert, P. O. Box 2033, Tyler.
 28-29 WASHINGTON (Seattle)—Sgt. H. J. Tipton, 10868 Interurban South, Seattle.
 28-29 FLORIDA (Jacksonville)—J. W. Thomas, P. O. Box 4067, Jacksonville.
 28-30 NEW YORK (Poughkeepsie)—M. W. Strahan, 356 South Rd., Poughkeepsie.

June
 4-5 MAINE (Blue Hill)—G. Scott, Twin Acres, Northport.
 4-5 NORTH CAROLINA (Conover)—C. L. Bumgarner, Rt. 1, Conover.
 11-12 MARYLAND (Lanham)—R. D. Marshall, 1105 Lackawanna St., College Park.
 12 MINNESOTA (Rochester)—R. V. Smith, 106 First Ave. N.E., Rochester.
 17-19 MARYLAND (Sparrows Point)—H. E. Schultheis, Sparrows Point Police Dept., Sparrows Point.
 18-19 TENNESSEE (Nashville)—L. E. Harvey, Federal Reserve Bank, 301 8th Ave., North Nashville.
 18-19 MISSOURI (Kansas City)—Cpl. R. Brown, Police Radio Station, 27th & Van Brunt Blvd., Kansas City.
 18-19 ALABAMA (Tarrant)—J. F. Davenport, 2145 Whiting Rd., Birmingham.
 25-26 IDAHO (Twin Falls)—L. F. Culver, 604 Quincy St., Twin Falls.

July
 9-10 PENNSYLVANIA (Harrisburg)—H. C. Swartz, Jr., 5309 Devonshire Rd., Harrisburg.
 9-10 ARKANSAS (Little Rock)—M. W. Burnett, P. O. Box 222, North Little Rock.
 9-10 KENTUCKY (Louisville)—J. R. Keller, 833 Parkway Dr., Louisville.
 16-17 NEW MEXICO (Clovis)—CWO G. H. Truston, P. O. Box 1000, Cannon AFB.
 23-24 OHIO (Middlebranch)—W. E. Harding, 4307 Edgefield Ave., N. W. Canton.
 23-24 VERMONT (South Woodstock)—L. Stimets, Willowvale, Woodstock.

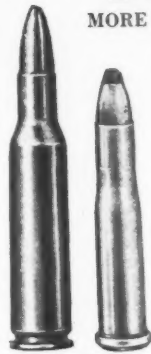
OTHER TOURNAMENTS

SMALLBORE RIFLE

May
 1 CALIFORNIA (Sharp Park)—Northern California Junior Position. C. J. Parshall, 47 Jackson, Hayward.
 1 ILLINOIS (Chicago)—3rd Annual Southtown Junior. D. T. Trusk, 6130 S. Menard Ave., Chicago.
 1 OKLAHOMA (Oklahoma City)—(A) Midstate. C. Y. Chandler, 1833 1/2 N. W. 7th, Oklahoma City.
 1 COLORADO (Montrose)—(A) Western Division. Frone and Position. L. Brill, 600 N. 4th, Montrose.
 1 TEXAS (Galveston)—(A) Monthly Invitational Position. G. W. Britt, Jr., 2414 1/2 39th St., Galveston.
 6 CALIFORNIA (Corona del Mar)—(A) South Coast Open Night Position. B. A. T. Medes, 705 Carnation, Corona del Mar.
 7 NORTH CAROLINA (Conover)—11th Annual Catawba Valley. J. C. Bumgarner, Rt. 1, Box 43-B, Conover.
 8 ALABAMA (Mobile)—(A) Spring. C. S. Murden, 270 Morgan Ave., Mobile.
 8 NEBRASKA (Grand Island)—Nebraska Midstate. D. J. Petty, 1919 N. Grand Island Ave., Grand Island.

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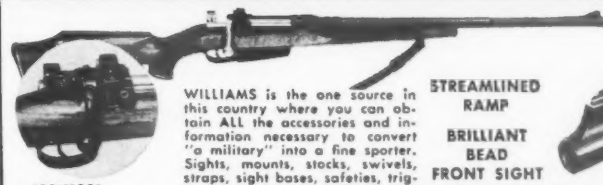
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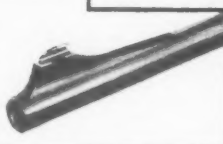
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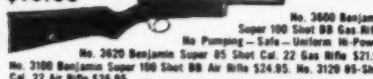


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NRA NEWS & EVENTS

- Grand Island.
13 CALIFORNIA (Corona del Mar)—(A) South Coast Open Night. B. A. T. Medes, 705 Carnation, Corona del Mar.
14-15 CALIFORNIA (El Monte)—Western Nationals. V. Kline, 2484 Woodlyn Rd., Pasadena.
14-15 OHIO (Marietta)—22nd Annual Spring. R. J. Donnelly, 720 Third St., Marietta.
14-15 COLORADO (Grand Junction)—Annual Western Colorado. F. J. Donaldson, Rt. #4, Grand Junction.
14-15 TEXAS (Longview)—East Texas 9th Annual. J. G. Leak, Jr., Rt. #3, Longview.
15 VIRGINIA (Quantico)—Northern Virginia Junior. L. H. Pankey, 2340 No. Early St., Alexandria.
15 OREGON (Medford)—Medford's Spring. D. J. Bolton, 219 Medical Center Bldg., Medford.
15 ILLINOIS (Peoria)—Kickapoo Bowl. R. L. Greer, Rural Rt. #2, Eureka.
15 ALABAMA (Birmingham)—(A) Monthly. J. F. Davenport, 1600 Oxmoor Rd., Birmingham.
15 PENNSYLVANIA (Reading)—(A). H. R. Palmer, RD #1, Mohnton.
15 NEW MEXICO (Santa Fe)—(A) May Classification. E. E. Wagner, Mountain View Trailer Ct., Box 515, Santa Fe.
15 CALIFORNIA (Ft. Ord)—Central California Monthly Junior. L. J. Evans, Jr., 234 Ardennes Circle, Ft. Ord.
20 CALIFORNIA (Corona del Mar)—(A) South Coast Open Night International. B. A. T. Medes, 705 Carnation, Corona del Mar.
21-22 TEXAS (Houston)—(A) Prone and Position. A. Bouray, 6621 Community Dr., Houston.
21-22 FLORIDA (South Miami)—(A) Junior Trophy. T. Harris, 3170 S. W. 8 St., Miami.
21-22 MICHIGAN (Marquette)—Annual. W. Nuska, 1014 N. 3rd St., Marquette.
22 NEW JERSEY (Roseland)—(A) Prone. I. N. Tekulsky, 168 W. 86th St., New York, N. Y.
22 NEW MEXICO (Farmington)—(A) Spring. W. C. Garrett, 1509 Mesa Verde, Farmington.
22 NEW YORK (Canandaigua)—Spring. B. J. Beach, 314 Eaglehead Rd., East Rochester.
22 ILLINOIS (Libertyville)—Season Opener. B. Mason, R. R. 1, Box 241C, Guerin Rd., Libertyville.
27 HAWAII (Schofield Barracks)—(A) Monthly. P. A. Wilson, 3501-A Schofield Barracks, APO 957, San Francisco, Calif.
27 CALIFORNIA (Corona del Mar)—(A) South Coast Open Night. B. A. T. Medes, 705 Carnation, Corona del Mar.
29 INDIANA (Vincennes)—12th Wild Strawberry. R. J. Doznaux, 2435 Wabash Ave., Vincennes.
29 LOUISIANA (New Orleans)—(A) 3rd Annual Deep South. J. A. Moroney, 1123 Second St., New Orleans.
29 MARYLAND (Marriottsville)—(A) International. D. Poldmae, 149 W. Lanvale St., Baltimore.
- June
4 OHIO (Akron)—2nd Annual Zeppelin Open International. P. E. Stokes, 187 Klinger St., Akron.
4-5 WEST VIRGINIA (Parkersburg)—(A) 4th Annual Spring. L. K. Walters, Rt. #4, Parkersburg.
4-5 OREGON (Clackamas)—Portland Rose Festival West Coast. T. T. Cosby, 3576 S. E. Division, Portland.
5 OKLAHOMA (Oklahoma City)—(A) Mid-State. C. Y. Chandler, 1833 1/2 N. W. 7, Oklahoma City.
5 MONTANA (Missoula)—(A) 12th Annual Western Montana. Mrs. D. Jones, 410 E. Beckwith Ave., Missoula.
5 VERMONT (Burlington)—Registered. S. J. Ayers, 1060 Hinesburg Rd., South Burlington.
5 TEXAS (Galveston)—(A) Monthly Invitational. G. W. Britt, Jr., 2414 1/2 39th St., Galveston.
5 CALIFORNIA (Richmond)—Western States. E. J. Martin, 2904 Maracopa Ave., Richmond.
5 OHIO (Akron)—4th Annual Zeppelin Open. P. E. Stokes, 187 Klinger St., Akron.
5 MICHIGAN (Ionia)—12th Annual. J. E. Huntley, Rt. #3, Ionia.
11-12 TEXAS (Waco)—Bluebonnet. R. Powell, Box 829, Waco.
11-12 VIRGINIA (Quantico)—(A) Maj. J. M. Jagoda, P. O. Box 212, Quantico.
11-12 WASHINGTON (Wenatchee)—10th Annual Summer Convention and Governor's 20 All Around. W. McGrew, Box 461, Cashmere.
11-12 NEW MEXICO (Cimarron)—Western Wildcats Open. H. Patterson, Cimarron.
12 MICHIGAN (Waterford)—(A) Annual. R. Stephenson, 1504 LeBlanc, Lincoln Park.
12 NEW YORK (Albany)—(A) 18th Annual Forbes. D. W. Winne, 20 Frederick Ave., Albany.
12 INDIANA (Anderson)—Anderson Annual Spring. D. Baker, 301 State Rd. #67 E., Anderson.
19 IOWA (Waterloo)—Registered. R. W. Travis, 503 First Nat'l Bldg., Waterloo.
19 PENNSYLVANIA (Clarion)—9th Annual Divisional. L. Pollum, 131 Walnut St., Brookville.
19 VIRGINIA (Arlington)—(A) P. C. Bahrman, 3040 N. Quince St., Arlington.
19 NEW MEXICO (Santa Fe)—(A) Classification Prone & Position. E. E. Wagner, Mountain View Trailer Ct., Box 515, Santa Fe.
19 CALIFORNIA (San Ysidro)—(A) Open. D. L. Kleis, 2825 B St., San Diego.
19 MAINE (Damariscotta)—(A) 12th Annual. H. P. Wagstaff, Box 337, Damariscotta.
19 OREGON (McKenzie Bridge)—2nd Annual.

- H. Yost, P. O. Box 83, McKenzie Bridge.
24 HAWAII (Schofield Barracks)—(A) Monthly. P. A. Wilson, Qtrs. 3501-A, Schofield Barracks, APO 957, San Francisco, Calif.
25-26 SOUTH DAKOTA (Custer)—11th Annual Black Hills. M. McFaddin, 315 Custer Ave., Custer.
25-26 OHIO (New Philadelphia)—Tusco 22nd Annual. E. Bond, R. #1, New Philadelphia.
26 FLORIDA (Orlando)—(A) Tangerine Prone & Position. R. E. Rogers, 615 Palm Dr., Winter Garden.

July

- 3 FLORIDA (Dania)—12th Annual Independence. T. C. Rossman, 2511 Filmore St., Hollywood.
3 OKLAHOMA (Oklahoma City)—(A) Mid-State. C. Y. Chandler, 1833 1/2 N. W. 7, Oklahoma City.
3 TEXAS (Galveston)—(A) Monthly Invitational Position. G. W. Britt, Jr., 2414 1/2 39th St., Galveston.
10 ILLINOIS (Libertyville)—20th Annual Black Hawk Open. H. R. Tevis, 315 Merrill Ave., Park Ridge.
16-17 OHIO (Akron)—15th Annual Zeppelin Open. P. E. Stokes, 187 Klinger St., Akron.
17 CALIFORNIA (San Ysidro)—(A) Open. D. L. Kleis, 2825 B St., San Diego.
17 ALABAMA (Birmingham)—(A) Monthly. J. F. Davenport, 1600 Oxmoor Rd., Birmingham.
24 IOWA (Waterloo)—Registered. R. W. Travis, 503 First Nat'l Bldg., Waterloo.
24 VERMONT (Woodstock)—Prosper 13th Annual. C. S. Lewis, Woodstock.
24 NEW MEXICO (Santa Fe)—Annual Prone and Position. E. E. Wagner, Mountain View Trailer Ct., Box 515, Santa Fe.
24 FLORIDA (Orlando)—(A) Tangerine Prone and Position. R. E. Rogers, 615 Palm Dr., Winter Garden.
29 HAWAII (Schofield Barracks)—(A) Monthly. P. A. Wilson, Qtrs. 3501-A, Schofield Barracks, APO 957, San Francisco, Calif.
30-31 MONTANA (Laurel)—1st Annual Ed Kucera Memorial. J. R. Olson, 619 Lewis Ave., Billings.
31 OHIO (Sidney)—5th Annual. C. M. Evans, 1074 Colonial Dr., Sidney.

HIGH POWER RIFLE

May

- 1 ILLINOIS (Great Lakes)—(A) Semi-Annual. J. M. Vinopal, 8811 S. Carpenter St., Chicago.
1 MINNESOTA (Johnsville)—(A) Gopher. R. C. Van Hoe, 2700 Major Ave., Minneapolis.
1 NEW MEXICO (Clovis)—(A) Clovis Section Coronado Cup. L. Shoemate, 826 Lea St., Clovis.
7-8 TENNESSEE (Oak Ridge)—(A) Masters Team Challenge. W. T. Collins, 102 Robins Lane, Oak Ridge.
7-8 TEXAS (Camp Bullis, San Antonio)—(A) Monthly. C. Ford, 510 W. Hermine Blvd., San Antonio.
8 TEXAS (Julliff)—(A) Monthly Restricted. Dr. H. F. Young, 5813 Indigo, Houston.
8 VIRGINIA (Arlington)—(A) 5th Annual. R. Elliott, 5405 8th Rd. S., Arlington.
8 WASHINGTON (Tacoma)—(A) Lapp-Polsky. L. J. Cary, 401 Bowes Dr., Tacoma.
8 CALIFORNIA (San Diego)—(A) MCRD Open. AM/Sgt. R. R. Becker, USMC, Weapons Trng. Bn., MCRD, San Diego.
14-15 OHIO (Camp Perry)—Ohio Service Rifle. Lt. Col. C. W. Morrow, Bldg. 101, Ft. Hayes, Columbus.
14-15 OHIO (Camp Perry)—(A) 5th Annual Intercollegiate. D. B. Hammer, 1749 Northwood Apts., Ann Arbor, Mich.
14-15 MICHIGAN (Muskegon)—(A) Secretary. Muskegon County Gun Club, 1991 Apple Ave., Muskegon.
15 CALIFORNIA (Lindsay)—(A). F. Wright, 4663 E. Olive, Fresno.
15 WASHINGTON (Monroe)—(A) Monthly. B. C. Blackford, Rt. 3, Box 548, Snohomish.
21-22 TENNESSEE (Oak Ridge)—Tennessee Team Tryouts. W. T. Collins, 102 Robin Lane, Oak Ridge.
21-22 WASHINGTON (Puyallup)—(A) Paul Bunyan Blue Ox Trophy. J. Shannon, Rt. No. 1, Box 259, Spanaway.
22 OKLAHOMA (Oklahoma City)—(A) 3rd Annual. H. C. O'Neil, P. O. Box 3164, State Capitol Station, Oklahoma City.
28-30 OHIO (Camp Perry)—(A) Camp Perry Long Range. E. F. Kardatzke, 1028 Scott St., Maumee.
29 COLORADO (Steamboat Springs)—(A). C. Elwood Bradley, P.O. Box 694, Steamboat Springs.
29-30 OREGON (Redmond)—(A) Central Oregon. G. E. Clapp, 209 Greenwood, Bend.
30 ILLINOIS (Springfield)—(A) Bill White Memorial. E. B. Peck, 3018 So. 3rd, Springfield.
- June
4-5 OREGON (Clackamas)—Portland Rose Festival West Coast. T. T. Cosby, 3576 S. E. Division, Portland.
5 NEBRASKA (McGrew)—Horseshoe Bend. T. Bulman, RR #2, Bayard.
5 WASHINGTON (Tacoma)—(A) L. Newton, 610 N. Prospect St., Tacoma.
5 ILLINOIS (Milan)—(A) Milan Memorial. E. R. Garrett, R. #2 Airport Rd., Milan.
5 WASHINGTON (Monroe)—(A) Monthly. B. C. Blackford, Rt. 3, Box 548, Snohomish.

NRA NEWS & EVENTS

11-12 WASHINGTON (Wenatchee)—10th Annual Summer Convention and Governor's 20 All Around. W. McGrew, Box 461, Cashmere.
 12 TEXAS (Juliff)—(A) Monthly Restricted. Dr. H. F. Young, 5813 Indigo, Houston.
 19 TEXAS (Camp Bullis)—San Antonio Monthly. C. Ford, 510 W. Hermine Blvd., San Antonio.
 19 MARYLAND (Marriottsville)—(A) Patapsco Individual. D. B. Schafer, 6221 Pilgrim Rd., Baltimore.
 25-26 NEW JERSEY (Cape May)—3rd Annual Garden State. H. Cross, 4 Cheryl Lane, W. Park Acres, Asbury Park.
 26 WYOMING (Cheyenne)—5th Annual. L. M. Brush, 1419 W. 32nd St., Cheyenne.
 26 OHIO (Cuyahoga Falls)—(A) 1st Cuyahoga Falls Annual. J. A. Gallagher, 1412 Curtis Ave., Cuyahoga Falls.

July

9-10 NEW YORK (Albany)—Forbes Memorial Long Range. D. W. Winne, 20 Frederick Ave., Albany.
 9-10 TEXAS (Camp Bullis)—6th Annual. C. Ford, 510 W. Hermine Blvd., San Antonio.
 10 MARYLAND (Ft. George G. Meade)—6th Annual IDRA. W. T. Schlick, 3746 Ingalls Ave., Alexandria, Va.
 10 WASHINGTON (Monroe)—(A) Monthly. B. C. Blackford, Rt. 3, Box 548, Snohomish.
 17 TEXAS (Juliff)—(A) Monthly Restricted. Dr. H. F. Young, 5813 Indigo, Houston.
 23-24 MICHIGAN (Muskegon)—(A). Secretary, Muskegon County Gun Club, 1991 Apple Ave., Muskegon.
 30-31 NEW YORK (Albany)—Forbes 7th Annual Long Range. D. W. Winne, 20 Frederick Ave., Albany.
 30-31 TENNESSEE (Oak Ridge)—Atomic City Pre-Perry. W. T. Collins, 102 Robin Lane, Oak Ridge.

PISTOL

May

1 NORTH CAROLINA (Kinston)—1st Annual Spring Tar Heel Open. Col. L. O. Williams, 805 West Highland Ave., Kinston.
 1 CALIFORNIA (San Diego)—Southland. A. B. Davis, 40th & A Sts., San Diego.
 1 MISSOURI (Kansas City)—5th Annual Spring. Cpl. R. Brown, c/o Police Radio Station, 27th and Van Bunt Blvd., Kansas City.
 1 ARKANSAS (Little Rock)—Mid-South Spring. M. W. Burnett, P. O. Box 222, North Little Rock.
 1 LOUISIANA (Shreveport)—4th Annual Holiday-in-Dixie. G. L. Scholz, P. O. Box 1098, Shreveport.
 1 TEXAS (Corpus Christi)—12th Annual Bucaneer. E. W. Dawson, 1004 Wilson Building, Corpus Christi.
 1 ALABAMA (Tarrant)—(A). J. F. Davenport, 2145 Whitire Rd., Birmingham.
 1 NORTH CAROLINA (Durham)—(A) Monthly. J. R. Anderson, 2310 Carver St., Durham.
 1 FLORIDA (Daytona Beach)—Spring 2700. W. R. Wallace, 635 Byron St., Daytona Beach.
 1 TEXAS (El Paso)—(A) Monthly. E. N. Libby, 9107 Vicksburg Dr., El Paso.
 1 FLORIDA (Miami)—(A) Monthly. Lt. F. J. Neff, 11945 S. W. 188 Terr., Miami.
 1 TEXAS (Houston)—(A) Invitational Monthly. Mrs. Martha M. Roberts, Rt. #29, Box 736, Houston.
 1 WASHINGTON (Oak Harbor)—Whidbey Invitational. W. G. Ficer, Jr., Marine Bks., NAS Whidbey Island, Oak Harbor.
 1 CALIFORNIA (Oakland)—(A). J. N. Markham, P. O. Box 1676, Oakland.
 7 OKLAHOMA (Oklahoma City)—(A) Club Members Monthly. H. C. O'Neil, P. O. Box 3164, State Capital Station, Oklahoma City.
 8 MICHIGAN (Marquette)—(A) Annual. W. Naska, 1014 N. 3rd St., Marquette.
 8 TEXAS (Alice)—(A) Hub City. W. T. Johnston, P. O. Box 581, Alice.
 8 TEXAS (Fort Worth)—(A) 1800-Point Monthly. H. H. Pricer, 4140 5th Ave., Fort Worth.
 8 NEW YORK (Rochester)—(A). D. C. Wardin, 158 Beresford Rd., Rochester.
 8 COLORADO (Ouray)—(A) Chief Ouray Annual Spring. H. O. Anderson, Box 12, Ouray.
 8 WASHINGTON (Monroe)—(A) Monthly. M. Blatchford, 2902 19th St., Everett.
 8 CALIFORNIA (Riverside)—El Camino Del Rio. C. F. Connelley, 4041 Maplewood Pl., Riverside.
 8 ILLINOIS (Carbondale)—(A). J. S. Mathias, POB 614, Carbondale.
 8 CALIFORNIA (Torrance)—(A) Monthly. Mrs. Celia Yellin, 4303 Josie Ave., Lakewood.
 8 TEXAS (Galveston)—(A) Monthly Invitational. A. B. Muehe, 3612 Ave. K, Galveston.
 8 MARYLAND (Lanham)—(A) May. R. D. Marshall, 5105 Lackawanna St., College Park.
 8 NEVADA (Boulder City)—(A) Boulder. R. H. Berg, Box 343, Boulder City.
 8 OKINAWA (Ft. Buckner)—(A) Monthly. Lt. Col. M. L. Brewer, G-3 Section, Hqsaryis, APO 331, San Francisco, Calif.
 8 TENNESSEE (Nashville)—(A) Monthly. L. E. Harvey, c/o Federal Reserve Bank, 301 8th Ave. No., Nashville.
 8 CALIFORNIA (Fl. Ord)—(A) Monthly. W. W. Wilson, P. O. Box 305, Ft. Ord.
 8 NORTH CAROLINA (Wilmington)—(A)

A SHOTSHELL RELOADER DESIGNED SPECIFICALLY FOR THE TRAP AND SKEETSHOOTER

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The M E C 250 is by far the fastest of all conventional reloading tools. Guaranteed to process 250 shells per hour when used by a proficient operator, this tool was built for speed as well as precision. Built by people who know the needs of the trap and skeet competitor.

<p>RAM WADS FLOATING WAD GUIDE CASING RESIZING DIE</p>	<p>CHARGES SHOT CHARGES POWDER GUIDES AND SEATS WADS RESIZES REPRIMES</p>	<p>EXTRA STATIONS</p>
<p>FLOATING WAD GUIDE Permits quick and easy loading and accurate seating of over-powder and filler wads, separately or in combination without damaging or deforming wad or bulging finished shell.</p>	<p>MULTIPLE-DUTY STATION Six operations at one station ... reducing shell handling to the minimum. One position reprimers, resizes, charges powder, guides and seats wads, and charges shot.</p>	<p>ONLY THREE WORKING STATIONS! Complete shell is processed with only three working stations. Tool has extra stations for installation of cap conversion kit, star crimp head, etc.</p>

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NRA NEWS & EVENTS

Monthly. W. M. Echols, P. O. Box 1821, Wilmington.

14-15 IDAHO (North Lewiston)—Lewiston. B. R. Imthurn, Rt. #1, Box 383, Lewiston.

14-15 FLORIDA (Cantonment)—Fiesta of Five Flags. F. S. Pierce, P. O. Box 141, Pensacola.

14-15 VIRGINIA (Manassas)—(A) Spring Invitational. S. W. Horner, Jr., 854 No. Liberty St., Arlington.

14-15 WEST VIRGINIA (Parkersburg)—(A) 6th Annual Spring Mountain. L. K. Walters, Rt. #4, Parkersburg.

14-15 TEXAS (Dallas)—Southwestern. J. E. Nicholson, 2626 Hynesboro, Dallas.

15 MONTANA (Havre)—(A) Invitational. B. G. Burch, 811 4th Ave. Havre.

15 NEW MEXICO (Clovis)—(A) Monthly. CWO G. H. Truiston, P. O. Box 1000, Cannon AFB.

15 TEXAS (Austin)—(A) Monthly. B. R. McElroy, Box 4087 NAS, Austin.

15 LOUISIANA (Lafayette)—(A) Monthly. P. B. Souders, Box 1704-OCS, Lafayette.

15 INDIANA (Bristol)—Registered. G. R. Horner, 1115 No. Huey St., South Bend.

15 FLORIDA (Hialeah)—(A) Monthly. V. A. Tefft, 4892 E. 10th Ct., Hialeah.

15 DISTRICT OF COLUMBIA—(A) Center-Fire. K. B. McConnell, 3602 Isbell St., Wheaton, Md.

15 TEXAS (Marfa)—(A) Monthly. Mrs. S. W. Casner, Box 853, Presidio.

15 CALIFORNIA (Los Angeles)—Encuentro De Los Pistoleros. K. M. Gaffaney, 1880 No. Boylston St., Los Angeles.

15 NEBRASKA (Imperial)—(A). E. D. Grimes, P. O. Box 431, Imperial.

15 CALIFORNIA (Folsom)—(A). M. Glass, 1087 48th St., Sacramento.

21 FLORIDA (Tampa)—(A). J. Bana, 1900 W. Diana Ave., Tampa.

21-22 MASSACHUSETTS (South Monson)—Annual Northeastern States. E. F. Mitchell, 8 Timothy Circle, Springfield.

21-22 OHIO (Canton)—Registered. W. E. Harding, 4307 Edgefield Ave., N.W., Canton.

21-22 VIRGINIA (Quantico)—Registered. Secretary, MCS Rifle & Pistol Club, P. O. Box 212, Quantico.

21-22 DELAWARE (New Castle)—5th Annual. P. A. Deary, 1624 1/2 Ward St., Linwood, Pa.

22 ILLINOIS (Rockford)—Spring. H. W. Lundberg, Police Dept., Rockford.

22 NEW HAMPSHIRE (Portsmouth)—(A) Spring. W. C. Pope, 173 Cutts St., Portsmouth.

22 MICHIGAN (Jackson)—(A) Monthly. Lt. H. H. Way, 216 E. Washington St., Jackson.

22 KANSAS (Goddard)—(A) Sunflower. W. F. Boettcher, 630 West 25th, Wichita.

22 TEXAS (San Antonio)—Monthly. W. M. Bobbitt, Box 223, Lackland AFB.

22 CALIFORNIA (Orange)—Monthly. D. C. Dunbar, P. O. Box 1042, Santa Ana.

22 ALABAMA (Lovick)—(A) Summer. T. B. Head, 1236 Birchwood St., Birmingham.

28-29 TENNESSEE (Oak Ridge)—Great Smoky Mt. Area. W. T. Collins, 102 Robin Lane, Oak Ridge.

28-29 IOWA (Marshalltown)—Registered. V. C. Dye, 5 West Webster, Marshalltown.

29 FLORIDA (Miami)—(A) Monthly. Lt. F. J. Neff, 11945 S.W. 188 Terr., Miami.

29 TEXAS (Levelland)—(A) Monthly. D. Fields, 1510 Ave. G., Levelland.

29 MARYLAND (Lanham)—(A) R. D. Marshall, 5105 Lackawanna St., College Park.

29 CALIFORNIA (Corona del Mar)—(A) South Coast Open. B. A. T. Medes, 705 Carnation, Corona del Mar.

29 GEORGIA (Atlanta)—(A). Mrs. D. F. Davis, 1945 W. Wesley Rd., N. W., Atlanta.

30 KENTUCKY (Somerset)—(A) Lake Cumberland Open. L. P. Johnson, c/o Jimmy's Trading Post, 105 W. Mt. Vernon St., Somerset.

30 JAPAN (Johnson Air Base)—(A) Monthly. M. Sgt. H. J. Vance, 6041st Air Base Group, Box 543, APO 994, San Francisco, Calif.

30 CALIFORNIA (Oakland)—(A). J. N. Markham, P. O. Box 1676, Oakland.

3 NORTH CAROLINA (Durham)—(A) Monthly. J. R. Anderson, 2310 Carver St., Durham.

3 PENNSYLVANIA (Reading)—(A) 2nd YMCA Invitational. W. A. Cunniff, Jr., 528 Bingham St., Reading.

5 TEXAS (Houston)—(A) Invitational. Mrs. M. M. Roberts, Rt. #9, Box 736, Houston.

5 HAWAII (Honolulu)—(A) Monthly. H. J. Falk, 1126 Aalapa Dr., Kailua.

5 TEXAS (El Paso)—(A) Monthly. E. N. Libby, 9107 Vicksburg Dr., El Paso.

5 NORTH CAROLINA (Wilmington)—(A) Monthly. W. M. Echols, P. O. Box 1821, Wilmington.

5 LOUISIANA (New Orleans)—(A) Monthly. J. Perregrino, 5 Caribou Ct., Metairie.

11 JAPAN (Johnson Air Base)—(A) Monthly. M. Sgt. H. J. Vance, 6041st Air Base Gp., Box 543, APO 994, San Francisco, Calif.

11-12 OHIO (Amherst)—5th Annual Registered. A. Berg, 5413 Carek Ct., Lorain.

11-12 NEBRASKA (Lincoln)—Capitol City. G. E. Overton, Oak Park Ct., 1st and Oak St., Lincoln.

11-12 WASHINGTON (Wenatchee)—10th Annual Summer Convention and Governor's 20 All Around. W. McGrew, Box 461, Cashmere.

11-12 LOUISIANA (Shreveport)—Mid Summer. G. L. Scholz, P. O. Box 1098, Shreveport.

11-12 TENNESSEE (Knoxville)—Smoky Mountain Open. E. R. Smith, 4609 W. Lincoln Circle, Knoxville.

11-12 MASSACHUSETTS (North Attleboro)—New England. Col. R. Snyder, Box 722, Rt. 2, Kelly Blvd., North Attleboro.

12 CALIFORNIA (Riverside)—El Camino Del Rio. C. F. Connelley, 4041 Maplewood Pl., Riverside.

12 TEXAS (Corpus Christi)—(A) Monthly. E. W. Dawson, 1004 Wilson Building, Corpus Christi.

12 ILLINOIS (Carbondale)—(A). J. S. Mathias, POB 614, Carbondale.

12 OKINAWA (Ft. Buckner)—(A) Monthly. Lt. Col. M. L. Brewer, G-3 Section, Hq. 5th AF, APO 331, San Francisco, Calif.

12 TEXAS (Galveston)—(A) Monthly Invitational. A. B. Muehe, 3612 Ave. K., Galveston.

12 FLORIDA (Hialeah)—(A) Monthly. V. A. Tefft, 4892 E. 10th Ct., Hialeah.

12 CALIFORNIA (Torrance)—(A) Monthly. C. Yellin, 4303 Josie Ave., Lakewood.

12 FLORIDA (DeLand)—(A). R. M. Taylor, P. O. Box 2473, DeLand.

12 CALIFORNIA (Ft. Ord)—(A) Monthly. W. W. Wilson, P. O. Box 305, Ft. Ord.

12 TEXAS (Fort Worth)—(A) 1800-Point Monthly. H. H. Pricer, 4104 5th Ave., Fort Worth.

12 PENNSYLVANIA (Phoenixville)—(A) 9th Invitational. Mrs. E. Carter, P. O. Box 349, Phoenixville.

12 MICHIGAN (Jackson)—(A) Monthly. Lt. H. H. Way, 216 E. Washington St., Jackson.

18 FLORIDA (Tampa)—(A). J. Bana, 1900 W. Diana Ave., Tampa.

18-19 TEXAS (Waco)—3rd Annual Heart O' Texas. R. Powell, Box 829, Waco.

18-19 NORTH CAROLINA (Camp Lejeune)—(A) 2700 Aggregate. Ag. Sgt. D. W. Felty, 2996 Saipan Dr., Camp Lejeune.

19 CALIFORNIA (Folsom)—(A). M. Glass, 1087 48th St., Sacramento.

19 GEORGIA (Atlanta)—(A) 2700 Aggregate. Mrs. D. F. Davis, 1945 W. Wesley Rd., N. W., Atlanta.

19 CALIFORNIA (Los Angeles)—Encuentro De Los Pistoleros. K. M. Gaffaney, 1880 No. Boylston St., Los Angeles.

19 NEW MEXICO (Clovis)—(A) Monthly. CWO G. H. Truiston, P. O. Box 1000, Cannon AFB.

9 LOUISIANA (Lafayette)—(A) Monthly. P. B. Souders, Box 1704-OCS, Lafayette.

9 KANSAS (Goddard)—(A) Sunflower. W. F. Boettcher, 630 W. 25th, Wichita.

9 TEXAS (Marfa)—(A) Monthly. Mrs. S. W. Casner, Box 853, Presidio.

19 ILLINOIS (Springfield)—1st Annual Illinois State Police Invitational Restricted. Maj. T. L. O'Connor, 401 Armory Building, Springfield.

26 TEXAS (San Antonio)—Monthly. W. M. Bobbitt, Box 223, Lackland AFB.

26 CALIFORNIA (Orange)—Monthly. D. C. Dunbar, P. O. Box 1042, Santa Ana.

26 TEXAS (Levelland)—(A) Monthly. D. Fields, 1510 Ave. G., Levelland.

26 NEW HAMPSHIRE (Barrington)—(A) Monthly. W. C. Pope, 173 Cutts St., Portsmouth.

26 FLORIDA (Miami)—(A) Monthly. Lt. F. J. Neff, 11945 S.W. 188 Terr., Miami.

26 CALIFORNIA (Oakland)—(A). J. N. Markham, P. O. Box 1676, Oakland.

3 NORTH CAROLINA (Durham)—(A) Monthly. J. R. Anderson, 2310 Carver St., Durham.

3 NORTH CAROLINA (Wilmington)—(A) Monthly. W. M. Echols, P. O. Box 1821, Wilmington.

3 TEXAS (El Paso)—(A) Monthly. E. N. Libby, 9107 Vicksburg Dr., El Paso.

3-4 IOWA (Marshalltown)—Registered. V. C. Dye, 5 West Webster, Marshalltown.

4 KENTUCKY (Somerset)—(A) Lake Cumberland Open. L. P. Johnson, c/o Jimmy's Trading Post, 105 W. Mt. Vernon St., Somerset.

8-10 CONNECTICUT (Rocky Hill)—1960 North Atlantic States. G. C. Ledder, West St., Rocky Hill.

9-10 LOUISIANA (New Orleans)—(A) Independence Day. J. A. Perregrino, 5 Caribou Ct., Metairie.

10 CALIFORNIA (Ft. Ord)—(A) Monthly. W. W. Wilson, P. O. Box 305, Ft. Ord.

10 ALABAMA (Lovick)—(A) Summer. T. B. Head, 1236 Birchwood St., Birmingham.

10 FLORIDA (Orlando)—(A). J. B. Garvin, 602 Kittedree, Orlando.

12 ILLINOIS (Carbondale)—(A). J. S. Mathias,

July

2-3 HAWAII (Honolulu)—1st Annual Independence. H. J. Falk, 1126 Aalapa Dr., Kailua.

2-3 CALIFORNIA (San Diego)—Southland. A. B. Davis, 40th and A Sts., San Diego.

2-3 GEORGIA (Atlanta)—1960 River Bend Handgun. Mrs. D. F. Davis, 1945 W. Wesley Rd., N. W., Atlanta.

3 CALIFORNIA (Oakland)—(A). J. N. Markham, P. O. Box 1676, Oakland.

3 NORTH CAROLINA (Durham)—(A) Monthly. J. R. Anderson, 2310 Carver St., Durham.

3 NORTH CAROLINA (Wilmington)—(A) Monthly. W. M. Echols, P. O. Box 1821, Wilmington.

3 TEXAS (El Paso)—(A) Monthly. E. N. Libby, 9107 Vicksburg Dr., El Paso.

3-4 IOWA (Marshalltown)—Registered. V. C. Dye, 5 West Webster, Marshalltown.

4 KENTUCKY (Somerset)—(A) Lake Cumberland Open. L. P. Johnson, c/o Jimmy's Trading Post, 105 W. Mt. Vernon St., Somerset.

8-10 CONNECTICUT (Rocky Hill)—1960 North Atlantic States. G. C. Ledder, West St., Rocky Hill.

9-10 LOUISIANA (New Orleans)—(A) Independence Day. J. A. Perregrino, 5 Caribou Ct., Metairie.

10 CALIFORNIA (Ft. Ord)—(A) Monthly. W. W. Wilson, P. O. Box 305, Ft. Ord.

10 ALABAMA (Lovick)—(A) Summer. T. B. Head, 1236 Birchwood St., Birmingham.

10 FLORIDA (Orlando)—(A). J. B. Garvin, 602 Kittedree, Orlando.

12 ILLINOIS (Carbondale)—(A). J. S. Mathias,

NRA NEWS & EVENTS

P. O. Box 614, Carbondale.
 10 TEXAS (Galveston)—(A) Monthly. A. B. Muehe, 3612 Ave. K, Galveston.
 10 CALIFORNIA (Torrance)—(A) Monthly. Mrs. Celia Yellin, 4303 Josie Ave., Lakewood.
 10 OKINAWA (Ft. Buckner)—(A) Monthly. Lt. Col. M. L. Brewer, G-3 Section Hqsary, APO 331, San Francisco.
 10 FLORIDA (Hialeah)—(A) Monthly. V. A. Teeft, 4892 E. 10th Ct., Hialeah.
 16 FLORIDA (Tampa)—(A). J. Bana, 1900 W. Diana Ave., Tampa.
 16-17 PENNSYLVANIA (Erie)—5th Annual. E. L. Peck, 2920 Reed St., Erie.
 16-17 LOUISIANA (Shreveport)—Ark-La-Tex. G. L. Scholz, P. O. Box 1098, Shreveport.
 17 CALIFORNIA (Los Angeles)—Encuentro De Los Pistoleros. K. M. Gaffaney, 1880 N. Boylston St., Los Angeles.
 17 NORTH CAROLINA (Camp Lejeune)—(A) 1800 Aggregat. Agt. Sgt. D. W. Felty, 2996 Saipan Dr., Camp Lejeune.
 17 CALIFORNIA (Folsom)—(A). M. Glass, 1087 48th St., Sacramento.
 17 NEW YORK (Norfolk)—(A) 4th International Seaway. C. Armstrong, RFD #2, Potsdam.
 17 WASHINGTON (Monroe)—(A) Monthly. M. Blatchford, 2902 19th St., Everett.
 17 TEXAS (Austin)—(A) Monthly. B. R. McElroy, Box 4087, N.A.S., Austin.
 17 MICHIGAN (Jackson)—(A) Monthly. Lt. H. Way, 216 E. Washington St., Jackson.
 17 TEXAS (Marfa)—(A) Monthly. Mrs. S. W. Casner, Box 853, Presidio.
 23-24 NEBRASKA (Lincoln)—Nebraska Pre-Perry. G. E. Overton, Oak Park Ct., 1st and Oak St., Lincoln.
 23-24 INDIANA (South Bend)—5th Annual Pre-Perry. G. Zubler, 1001 N. Johnson, South Bend.
 23-24 MARYLAND (Marriottsville)—12th Annual. T. J. Kees, 1100 Helmsley Ct., Lutherville.
 23-24 TENNESSEE (Oak Ridge)—Atomic City Pre-Perry. W. T. Collins, 102 Robin Lane, Oak Ridge.
 23-24 WASHINGTON (Raymond)—(A) Annual. E. C. Blake, P. O. Box 135, Raymond.
 24 TEXAS (San Antonio)—Monthly. W. M. Bobbitt, Box 223, Lackland AFB.
 24 CALIFORNIA (Orange)—Orange County Peace Officers Monthly. D. C. Dunbar, P. O. Box 1042, Santa Ana.
 24 TEXAS (Dallas)—(A) Monthly. J. E. Nicholson, 2626 Jonesboro, Dallas.
 24 FLORIDA (Miami)—(A) Monthly. Lt. F. J. Neff, 11945 S.W. 188 Terr., Miami.
 31 TEXAS (Levelland)—(A) Monthly. D. Fields, 1510 Ave. G, Levelland.
 31 NEW HAMPSHIRE (Barrington)—(A) Monthly. W. C. Pope, 173 Cutts St., Portsmouth.

CANCELLED

May

15 CALIFORNIA (San Ysidro)—(A) Open Outdoor Smallbore Rifle. D. L. Kleis, 2825 B St., San Diego.

June

26 TEXAS (Dallas)—(A) Monthly Outdoor Pistol. J. E. Nicholson, 2626 Jonesboro, Dallas.

STATE ASSOCIATION MEETING

June

11-12 WASHINGTON (Wenatchee)—C. M. Styer, 1737 Sunset Ave., Seattle.

GUN COLLECTORS MEETINGS

June

ALABAMA—Alabama Gun Collectors Association, Redmont Hotel, Birmingham. Gene Jones, 2713 Hanover Circle, Birmingham. May 7-8.
 ARKANSAS—Arkansas Gun & Cartridge Collectors Club, Sportsman One Stop, 3304 East Broadway, North Little Rock. J. B. Dodson, 521 Adams Ave., S. E. Camden. June 12.
 CALIFORNIA—Northern California Arms Collectors Association, Lake Merritt Sail Boat House, 568 Bellevue Ave., Oakland. Reg Brenner, 3019 Benvenue Ave., Berkeley. May 27, June 24.
 CALIFORNIA—Southern California Arms Collectors Association, Plummer Park, 7377 Santa Monica Blvd., Hollywood. Richard B. Stanley, 841 S. Donna Beth Ave., West Covina. May 28, June 25.
 CONNECTICUT—Connecticut Gun Guild, Colt Company Cafeteria, Hartford. J. Richard Salzer, 30 Dudley St., Norwich. May 6, June 3.
 CONNECTICUT—Stratford Gun Collectors Association, Gunroom, Booth Memorial Park, Stratford. Joseph Wupperfeld, Box 4, Newtown. May 17.
 MARYLAND—Cumberland Valley Arms Collectors Association, Wacoah Grange Hall, 4 miles west of Hagerstown on Rt. 40. T. B. Wibberley, 54 E. Lincoln Ave., Hagerstown. May 4, June 7.
 MARYLAND—Maryland Arms Collectors Association, Sheraton Belvedere Hotel, Charles St. at Chase, Baltimore. Charles K. Miller, Jr., 85 Baker St., Aberdeen. May 13, June 10.
 MASSACHUSETTS—Massachusetts Arms Collectors. Meetings open to members only. For information contact John J. Callan, Jr., 15


GUNS GUN PARTS SCOPES AMMUNITION GUN STOCKS BLANKS

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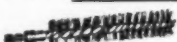
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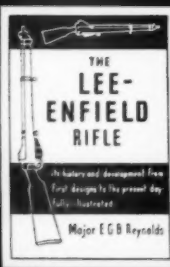
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NRA NEWS & EVENTS

Montague St., Worcester. **May & June.**
MICHIGAN—Michigan Gun Collectors Association, Lansing Civic Center, Lansing. William H. Heid, 8914 Borgman, Huntington Woods. **May 21-22.**
MISSISSIPPI—Mississippi Gun Collectors Association, Community Center Auditorium, Hattiesburg. Jack E. Swinney, Box 1332, Hattiesburg. **Apr. 30-May 1.**
NEW JERSEY—Fort Lee Arms Collectors. VFW Hall on Main St., Ft. Lee. Robert F. MacKinnon, 483 South Ave., E. Cranford. **May 5, June 2.**
NEW YORK—Mid-State Arms Collectors & Shooters Club, Broome County Extension Service Bldg., DeLon Travers, 111 S. Broad St., Norwich. **May 1.**
NEW YORK—Mohawk-Hudson Arms Collectors Association, VFW Post 5088, Rt. 10, Cobleskill. **May 15.** Iliion Fish & Game Club, Iliion. **June 25.** R. G. Roberts, Tribes Hill.
NEW YORK—New York State Arms Collectors Association, Corning Glass Center, Corning. Michael Petrozello, 1606 Watson Blvd., Endicott. **May 21-22.**
OHIO—Ohio Gun Collectors Association, Canton. Mrs. C. D. Rickey, Box 1, Prospect. **May 14-15.**
OHIO—Tri State Gun Collectors Association, Green Acres, Jct. Ohio Rt. 118 & 29, 2 miles west of Celina. Mrs. C. R. Schumm, 611 W. O'Connor, Lima. **May 15.**
PENNSYLVANIA—Central Penn Antique Arms Association, Community Center, 150 S. 28th St., Penbrook, Harrisburg. David J. Klinepeter, 32 S. 24th St., Penbrook, Harrisburg. **May 22, June 26.**
PENNSYLVANIA—Northern Tier Antique Gun Collectors Association, Williamsport YMCA, 343 W. 4th St., Cliff C. Breidinger, Trout Run. **May 4 & 18.**
PENNSYLVANIA—Pennsylvania Antique Gun Collectors Association, Valley Forge Hotel, Norristown, William T. Stroud, Northwestern Ave., Philadelphia. **May 8, June 12.**
PENNSYLVANIA—Pennsylvania Gun Collectors Association, Gettysburg Hotel, Gettysburg. John F. Scott, 1054 Black Forest Rd., Pittsburgh. **June 25-26.**
TENNESSEE—Tennessee Gun Collectors Association, Inc., Tennessee Championship Muzzle Load Matches Range, 11 miles south of Franklin. **May 14-15, Nashville, June 11 & 12, M. H. Parks, 3556 Pleasant Valley Rd., Nashville.**
TEXAS—Houston Gun Collectors Association, Shamrock Hilton Hotel, Houston, Richard Neff, 5622 Tupper Lake Dr., Houston. **May 8-10.**
WASHINGTON—Washington Arms Collectors Inc., Federal Way High School Cafeteria, between Seattle & Tacoma. J. Dennis Cook, 4211 N. 19th St., Tacoma. **May 1, June 5.**

#1208. Reward. Russell Donnelly, SOSN, USS James E. Kyes (DD 787), F. P. O. San Francisco, Calif.
SMITH & WESSON New Departure revolver .38 S&W #81678. Reward. J. E. Mann, Jr., P. O. Box 113, Amherst, Tex.
SMITH & WESSON Chiefs Special revolver .38 Spl. #45450; SMITH & WESSON .357 Mag. revolver .357 Mag. #5108207; SMITH & WESSON Military & Police revolver .38 Spl. #572184; SMITH & WESSON .38/44 revolver .38 Spl. #5821390; GREAT WESTERN Derringer pistol .38 S&W #106; FN-BROWNING auto-pistol .25 auto #137326; BERETTA 1934 auto-pistol .32 auto #891977; COLT Commander auto-pistol .45 auto #39826-LW, Charles L. Turner, 2722 1/2 Welch St., Little Rock, Ark.
RUGER Blackhawk revolver .44 Mag. #18762; COLT S. A. Army revolver .45 #27842SA; RUGER Single-Six revolver .22 WMR #303350; RUGER Single-Six revolver (4) .22 #38963, #125363, #44460, #205477; SMITH & WESSON 1950 revolver .45 auto #146327; SMITH & WESSON 1955 revolver .45 auto #74860; HI-STANDARD Double-Nine revolver .22 #974939; COLT Buntline revolver .22 #94662F, San Francisco Gun Exchange, 75 Fourth St., San Francisco 4, Calif.
REMINGTON 721 rifle .300 Mag. #79501; REMINGTON 722 rifle .222 Rem. #75468; WINCHESTER 50 shotgun 20-ga. #122955. Reward. Bernard McCloskey, 826 Concord S. W., Albuquerque, N. Mex.
HUSQVARNA 1907 auto-pistol 9 mm. #60316; COLT Frontier Scout revolver .22 #23826F, William W. Taylor, 604 E. Galena, Butte, Mont.
LUGER 1908 auto-pistol 9 mm. #8401; COLT Challenger auto-pistol .22 #7700; COLT pocket auto-pistol 380 auto #11791; SAVAGE 99 rifle .250-3000 #301940; SAVAGE 99 rifle .22 Hi-Power #193688; WINCHESTER 90 rifle .22 #320198; SPRINGFIELD 1903 rifle .30-06 #1104757; WINCHESTER 12 shotgun 12-ga. #1259412; COLT Army revolver .44 #130467; COLT Navy revolver .36 #136220; COLT Frontier revolver .44 #355053; COLT Official Police revolver .38 Spl. #741553; PLANT revolver .32 #489; COLT Pocket revolver .31 #25100, Wallace Barnhill, Rt. 1, Box 237, Oakdale, Calif.

COL. PAUL M. MARTIN

Col. Paul M. Martin, USA (Ret'd), a member of the Army Cavalry rifle team from 1924 to 1934, died Feb. 25 at Walter Reed Hospital. He was 61 years of age. A staff member of Westinghouse Electric Co. in Baltimore, he had lived in Severna Park, Md., since his retirement from the Army 5 years ago.

A Distinguished Marksman and Pistol Shot, Col. Martin won the Leech Cup at the 1924 National Matches. He twice represented the United States in International rifle matches, in 1927 at Rome, Italy, and in 1928 at Loosduinen, Netherlands. In 1949 Col. Martin captained the U. S. rifle and pistol team which fired in the International matches in Buenos Aires, Argentina.

JOHN UNERTL

John Unertl of the J. Unertl Optical Co. of Pittsburgh, Pa., died in Pittsburgh on Mar. 12, at the age of 64. An active small-bore rifle shooter prior to World War II, after the war he became interested in bench-rest shooting and was an active competitor.

Mr. Unertl was born May 4, 1895, in Germany, where he lived until 1923 when he emigrated to Argentina. He lived in Argentina until 1927, at which time he moved to the United States.

In 1934 Mr. Unertl founded in Pittsburgh the optical company which bears his name, and produced telescope sights for rifles and other optical devices. During World War II and the Korea War the company made optical apparatus for military needs, and today does a great deal of optical instrumentation work.

Mr. Unertl is survived by his wife and son, both partners in the Unertl Optical Co.

Stolen Guns

The following guns have been reported to the NRA as stolen. Any information regarding these items should be forwarded directly to the person concerned. All listings are made on the basis of information forwarded to the NRA by the reporting person whose name and address are listed below. When sending in reports on stolen guns, include make, model, serial number, caliber.

- COLT Govt. Model auto-pistol .45 #C239800. John J. Lally, 2233 N. W. Everett St., Portland, Ore.
- REMINGTON M-94 shotgun 12-ga. #77346. Ronald Shever, R. D. #2, Evans City, Pa.
- REMINGTON M-58 shotgun 20-ga. #140759X. R. Stanford Webb, 14 Church St., Asheville, N. C.
- BROWNING Auto shotgun 12-ga. #128049; WINCHESTER M-54 rifle .22 Hornet #41055A. Clark A. Lane, Lane Clothing Co., Humboldt, Iowa.
- COLT M-1860 Army revolver .44 #12070. Reward, Bob Pearl, 381 S. Broadway, Yonkers, N. Y.
- SMITH & WESSON .357 Magnum revolver .357 Mag. #168831. Cdr. P. C. Dorsey, Naval Air Station, Corpus Christi, Tex.
- MARLIN 90 shotgun 12-ga. #F3179. George A. Griffith, RD2, Box 141, Pottstown, Pa.
- MAUSER rifle .375 Mag. #22076; TELL Freepistol .22 #1020. C. M. O'Neil, Box 17, Alberton, Mont.
- RUGER Mark 1 Target auto-pistol .22 #73782. R. A. Huber, 6515 Chanslor Ave., Bell, Calif.
- HARRINGTON & RICHARDSON 999 revolver .22 #47086; COLT Official Police revolver .38 Spl. #74191. Miles S. Vaughn, 1129 S. Sixth Ave., Tucson, Ariz.
- REMINGTON 760A rifle .30-06 #311257. James Moreland, Box 25, Mt. Storm, W. Va.
- COLT Pocket auto-pistol .380 auto #124836; RUGER Mark I auto-pistol .22 #70079. Ray L. Funk, 3316 N. Del Mar Ave., S. San Gabriel, Calif.
- WHITNEY revolver .44 #9433. Edward S. Terpin, 32nd & Lancaster Ave., Philadelphia, Pa.
- COLT S. A. Army revolver .45 #14801-SA. Bill Davidson, 208 N. Stone Ave., Tucson, Ariz.
- COLT Gold Cup auto-pistol .45 #1270-NM. James A. Wilson, Box 7118, College Station, Tex.
- SMITH & WESSON Military & Police revolver .38 Spl. #C-221439; LUGER auto-pistol 7.65 mm.

Lifetime Memberships

THE National Rifle Association is supported by membership dues and contributions of public-spirited citizens and clubs. It does not receive any grants or subsidies from the manufacturers of arms and ammunition or from the Federal Government. The Association's bylaws provide for contributory lifetime memberships as follows: Life membership \$100, Endowment \$250, Patron \$500, and Benefactor \$1000.

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ARIZONA: Western Wildcats Outdoor Smallbore Rifle Tournament. PHOENIX. CALIFORNIA: Indoor Smallbore Rifle Sectional, Willows. COLORADO: Indoor Rifle & Pistol Sectionals, Durango. FLORIDA: Silver Dollar Outdoor Smallbore Position Match, Winter Haven. GEORGIA: Indoor Pistol Sectional, Atlanta. IDAHO: Indoor Pistol Sectional, Buhl; Indoor Smallbore Rifle Sectional, Buhl. MASSACHUSETTS: Approved South Shore Mid-Season Gallery Tournament, Sharon. MICHIGAN: Michigan State Gallery Rifle Championship, Grand Rapids; 1960 Schutzenfest Indoor Smallbore Rifle Tournament, Roseville. MINNESOTA: Indoor Pistol Sectional, Minneapolis. MONTANA: Indoor Pistol Sectional, Great Falls; Yellowstone Valley Shooting Smallbore Rifle Tournament, Big Timber. NEBRASKA: Indoor Pistol Sectional, Omaha. NEW HAMPSHIRE: Approved Monthly Indoor Pistol Tournament, Portsmouth. NEW MEXICO: Approved Cannon Smallbore Rifle Regional, Clovis; New Mexico State Junior Gallery Championships, Holloman AFB. NEW YORK: Indoor Smallbore Rifle Sectional, New Cassel; 10th Annual Edison Gallery Rifle Tournament, Brooklyn. OKLAHOMA: 2nd Annual Oklahoma Gallery Rifle State Championship, Claremore. OREGON: Indoor Pistol Sectional, Medford; Indoor Smallbore Rifle Sectional, Portland. VIRGINIA: Approved First Spring Outdoor Pistol Tournament, Virginia Beach. WASHINGTON: Indoor Smallbore Rifle Sectional, Centralia. WISCONSIN: Indoor Pistol Sectional, Milwaukee. WYOMING: Annual Invitational Gallery Smallbore Rifle Position Tournament, Warren AFB.

CONTRIBUTORS, ORGANIZATIONS:

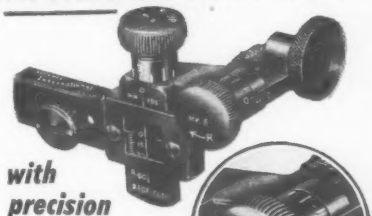
CALIFORNIA: Essoe Rod & Gun Club; Mare Island Rifle & Pistol Club. WISCONSIN: DePere Sportsmans Rifle & Pistol Club.

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FEATURES: Fully spring loaded in both windage and elevation. Lost motion completely eliminated. Large 7-40 adjusting screws. Heavy tension springs keep constant tension between large adjusting knobs, adjusting screws and slide. 1/8 minute click adjustments are plainly heard and felt. Fits same base as Olympic.

With standard base and 3/8" disc, **\$3925**
Standard sight with 1/4 minute adjustments also available.

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Truly a precision instrument equal in accuracy to the finest match rifles, the Olympic receiver is a national standard of refinement, practical design and accuracy of adjustment. Scales are easy to read. Large knurled adjusting knobs are clearly marked. Quarter minute clicks. Olympic receiver with any standard base and 3/8" Disc. **\$21.95**



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REDFIELD GUN SIGHT CO.
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Ye Old Hunter is all heart!
by actual unvarnished photographs as
You can see how they RE-ALLY look.

INCREDIBLE AMMO BARGAINS

MINIMUM ORDER TOO ORDERS. All prices below per 100 rounds. All ammo must be shipped from BRENDS BARGAINS CHANGES COLLECT SERVICE. SINGAPORE	
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NEW, genuine Springfield 4 Gr. Borras. Choice of either 03 or 03-A3 type. Original decorated—re-cord. Only \$8.95
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MAUSER .98 stripped bolts. Only slightly time over offered. rare—perfect. Only \$4.95
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To save—send 75¢ for each of first item. Send 50¢ for each of last three for parcel Post shipping. Avoid other charges.

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\$44.95!

Never before available in quantities in very large quantities...
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"The Rifle Designed for Super Strength"

Another Supply of the FINEST and LATEST U.S. Army Bolt Action Rifle!

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- AND ONLY

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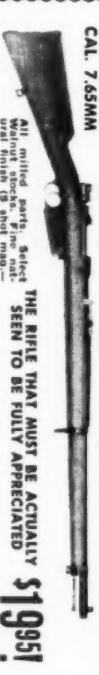


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The RIFLE THAT MUST BE ACTUALLY SEEN TO BE FULLY APPRECIATED

ALL milled parts, selected wood (required), a Mauser barrel has been available, UNREPLACABLE. From any one place but YE OLD HUNTER! YOU'D be unimpairedly...
\$19.95!



From Switzerland!!! Where the Watchword is Always Precision!
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The most Spectacular Bargain in All Rifled Ammo Now in Stock!

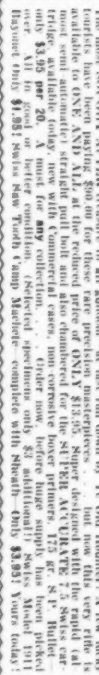
The most superior ARMS firearm in all existence at last run down by YE Old Hunter! A few lucky individuals have been favored with the original, NEW, Model 1911...
Reduced to Only \$13.95!



RUSSIAN M91 and M91/30 RIFLES
Cal. 7.62 Russian

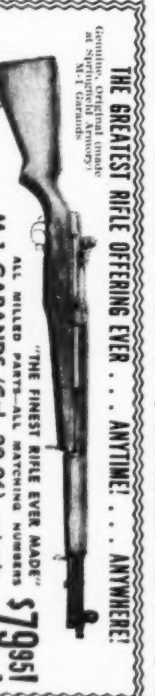
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Your choice ONLY \$14.95!



THE MOST AMAZING FIND OF OUR TIMES! Authentic Russian Infantry Rifle in both Model '91 and the rare Model '30...
CANADIAN BUYERS: Write direct to our Canadian Distributor, P. O. Box 628, Peterboro, Ontario.

THE GREATEST RIFLE OFFERING EVER... ANYTIME! ANYWHERE!



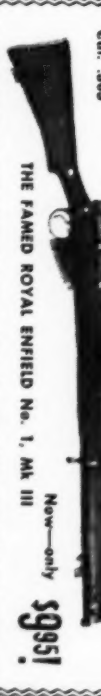
M-1 GARANDS (Cal. 30-06) and only \$79.95!
ALL MILITARY PARTS—ALL MATHEMATIC NUMBERS

Yes, YE Old Hunter, the Garand's...
\$79.95!

THE MOST DRAMATIC PRICE REDUCTION EVER!!!

Cal. .303 THE FAMED ROYAL ENFIELD NO. 1, Mk III

Now—only \$9.95!



A Pancho Villa Special! Cal. 7mm Remington Rolling Blocks!
Cal. 7MM

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NEW SHIPMENT of rare original 7MM Remington Rolling Blocks—the rifle that broke all sales records a few years back...
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THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. RATES: 35 cents per word including name and address—minimum charge \$4.20. Advertisements must be accompanied by remittance, addressed to "The Arms Chest", American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., N.W., Washington 6, D. C. Insertion will not be made until payment is received.

2. Closing Date: All advertisements must be received with advance payment by not later than the 25th of the second month preceding date of issue. (Example: May 25th for the July issue. Ads received after May 25th and not later than June 25th will be inserted in the August issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy and to reject or discontinue any advertisement which we consider not in the best interests of the National Rifle Association.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers only, will not be accepted. Give your COMPLETE name and address, to insure prompt and certain delivery of all mail or telegraph replies.

NOTE: Postal authorities no longer are required to provide directory service for even first class mail which does not carry a complete local address!

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: 30-30, 250-3000, \$150.00, \$1.50). Abbreviations consisting of initials or single characters are counted as one word (example): W. H. Smith

(W. H. counts as one word); H. B. meaning heavy barrel, etc.; W. H. and H. B. are one word. Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip). Be sure to include name and address in word count. *Unusual punctuation is not permitted.*

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions. NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD

—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers will accept no responsibility for any un-

satisfactory transaction involving articles which have not been described in accordance with the provisions of Paragraph 8. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—before any transactions are consummated. Purchasers should also request shipment by Express C.O.D., with examination privileges; the purchaser may (and should) then examine the shipment in his local Express office—if unsatisfactory the article will then be returned by the Express Company to the shipper, at the latter's expense.

10. The National Firearms Act controls the possession and the sale of the following: (a) Full automatic guns; (b) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber; (c) Handguns such as the Mauser or Luger automatic pistols, when such weapons are accompanied by a detachable butt stock.

The above firearms may be sold or transferred only after the payment of the special tax required by Section 5811, Internal Revenue Code.

NOTE: "Barrel length," as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

11. The Federal Firearms Act requires that "dealers" in firearms and ammunition must be licensed to transport, ship or receive any firearm or ammunition in interstate or foreign commerce.

Any dealer requiring a license under the Federal Firearms Act, may secure an application (Form 7) from the District Director of Internal Revenue for the area in which his business is located.

Copies of the National and Federal Firearms Acts may be obtained from N.R.A. on request.

FOR SALE

FOR LAW ENFORCEMENT OFFICERS. 38 Cal Tear Gas fountain Pen for your protection, \$5.95 with one gas shell. Extra shells 50¢ each. 410 Ga. Aluminum Tear Gas Pencil Style Gun, \$8.95 each with one shell. Extra shells 75¢ each. Peerless type lightweight handcuffs, \$7.95 per pair. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

RELOADERS AND DEALERS: WE ARE EASTERN representatives of Herters Waseca, Minn. Prices are exactly the same as catalog or dealer insert. Postal or freight charges are from Philadelphia. A substantial savings for eastern users. Same day service our policy. Free Catalog available. Leslie Edelman, 5843 Germantown Avenue, Philadelphia, Pa.

FOR SALE: ARMS LITERATURE—OLD CATALOGS—Books—Pamphlets. Send for Bargain List and Information card. Hugh Smiley, Henniker 10, New Hampshire.

EXCITING 40-PAGE CATALOG EVERY month. Fully illustrated. Hundreds antique guns, swords, military items. All different each issue. Order with confidence. America's Finest Antique Arms Service. Subscription 12 catalogs just \$1.00. Norm Flayderman (R), 44 West Putnam Avenue, Greenwich, Conn.

ATTENTION RELOADERS: BULLETS 38 SPECIAL 146 Grain Wadcutter, 145 Grain Round Nose, 500—\$6.50, 158 Grain Round Nose, 160 Grain Semi Wadcutter, all sized to .358, 500, \$6.75; 45's, 185 Grain and 200 Grain Semi Wadcutter, sized to .452, 500, \$7.50; 44 Magnums sized to .431, Gas Checked, 240 Grain, 500, \$11.50. Bullets packed in Plywood boxes and steel banded. Cases, 32 S&W Long, once fired, cleaned, 500, \$6.00. Postpaid Insured. West of Mississippi add 10%. Al. Cuttillo, 1-19 Hartley Place, Fairlawn, N. J.

MEDAL DISPLAY CASE HOLDS FIFTEEN medals in Blacklinton type presentation boxes. Genuine walnut, \$5.50 each, postpaid. Custom Woodwork, 9202 Bradford Road, Silver Spring, Maryland.

HAND SIGHTING LEVELS, IMPROVED NEW model, many uses, for laying drains, ditches, foundations, grading, contouring, laying out of fences, piers, roads and gardens. Fully guaranteed \$2.50 Postpaid. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

PARTS FOR S.M.L.E. MARK III, RIFLE NO. 4 and No. 4 Mark I. Stamp for list. Kelley's, 240 Main St., Woburn, Mass.

GARAND, CARBINE, ENFIELD, SPRINGFIELD parts. Parts wanted for all kinds of guns. Enclose stamp. Free lists. Greeley's Gun Shop, 448 Popton Ave., Cedar Grove, N. J.

MUZZLE LOAD CANNON, 26" BARREL—1 1/2" bore. Weight 200 lbs. Free photo. Bielefeld, New Bremen, Ohio.

BALLARD, 22 JOHNSON BARREL, LEFT Hand Lyman Super Targetspot. M. P. Rose, 214 Dawson St., New Bedford, Mass.

COLT 45 AUTO. BARREL LINKS FOR A Tight Thrust. Hardened Tool Steel. Machined. Unrusted—.010—.020—.025 Between Hole Centers \$2.00 Each. Special Centers \$2.50 Each. Postage Paid. Wm. Faust, Box 23452, Los Angeles 23, California.

FOR SALE—REM. NYLON 66, NEW, \$40.00. Decapping pins for rifle and pistol dies, 3¢ ea. Hi standard double nine, new, \$40.00. C. W. Atkins, Western Michigan Gun Works, 1005 Mt. Garfield Rd., Muskegon, Michigan.

25-270 ICL VARMINTER—H.B. EXTRA Fancy Feathered Burl Stock—Double-set Trigger-FN Action—2" Unertl 1 1/2x Scope 100 cases Dies—3/4" groups guaranteed—perfect condition. Cost \$420. First \$320. Neil Burnside, Box 204, Avon, New York.

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U.S. M1 30-06 GARAND RIFLES, VERY good—\$79.95. Excellent—\$89.95. U.S. 30-06 Enfield rifles. Excellent—\$34.50. U.S. 30-06 high number Springfield rifles. Excellent—\$49.50. U.S. 30-40 Krag rifles. Good—\$37.50. U.S. 45-70 Springfield rifles. Good—\$39.50. British Mk.3 303 Lee-Enfield jungle carbines. Very good—\$24.95. Excellent—\$29.95. British Mk.4 303 Lee-Enfield rifles. Excellent—\$19.95. German Mod. 98 8mm Mauser rifles. All milled parts. Good—\$34.95. Very good—\$39.95. Argentine Mod. 91 7.65mm Mauser rifles. Perfect—\$24.50. Argentine Mod. 1909 7.65mm Mauser rifles. Perfect—\$39.95. Swedish Mod. 94 6.5mm Mauser carbines. Very good—\$29.95. Excellent—\$34.50. Perfect—\$39.50. Swiss Mod. 89 7.5mm Schmidt-Rubin rifles. Excellent—\$19.95. Jap 7.7mm Arisaka rifles. Pre-War issue. Excellent—\$18.00. 30-06, 303 British, 8mm Mauser, 6.5mm Swedish, 7.62mm Russian, military ammunition at \$7.50 per 100 rds. Money back guarantee. Free gun list. Freedland Arms Co., 34 Park Row, New York 38, N. Y.

RELOADING TOOLS AND SUPPLIES, NEW and Used Guns and Scopes, Custom Stocks, Rosser Hardware, 1719 Mulberry Street, Montgomery 6, Ala.

AUTOMATIC EJECTION BULLET DIES, R.C.B.S. A-press only \$47.50. Formed cases swaged bullets. Robert Pomeroy, 45 Wyoming, Waterbury, Conn.

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Read what one regular user of "THE ARMS CHEST" has to say—

"The RIFLEMAN has produced a larger number of orders for us than a combination of 15 other publications, with circulations totaling more than 2,500,000!

"We have established hundreds of regular customers directly through our ads with you—The RIFLEMAN is tops."

If you have a product or service of interest to shooters, hunters and outdoorsmen, an "Arms Chest" ad will do an exceptionally fine job for you, at a minimum of cost—only 35¢ per word for more than 350,000 circulation.

All "copy" for July Issue must reach us by not later than May 25th.

See above for full instructions

AMERICA'S GREATEST SHOOTER'S BARGAINS

★ TOP GUN BARGAINS ★

<p>.22 L. R. SHORT LEE ENFIELD</p>  <p>The Bisle Marksmen Favourite. Only a small quantity manufactured in the popular .22 caliber for military training and competition. Single shot can be converted to repeater. Complete your collection with the rarest of all Enfields. (V.G. to Excel.) Only \$19.95. 2 for \$38.00. 5 for \$73.00. Selected models.</p>	<p>IMPORTED MUZZLE LOADERS</p>  <p>CAP PERCUSSION GUNS. Sculptured, highly engraved walnut stock. 30" bbl., inlaid patchbox, ram rod. Only \$29.50. 2 for \$50.00. Also, 38" bbls. Only \$33.50. 2 for \$60.00. Flintlock guns—bbls. from 35" to 50". Only \$39.50. 2 for \$70.00. Each an excellent shooter.</p>	<p>.303 LATEST ISSUE ENFIELD #4</p>  <p>10-shot, detachable magazine. Precision calibrated Enfield sights. World's fastest bolt action. Currently in use. Used by hunters the world over. (V.G. to Excel.) Free new "gas issued" sling. Only \$14.50. 2 for \$27.50. Selected models.</p>
<p>.22 MOSSBERG MODEL 42MB REPEATER</p>  <p>The Cadet's Favorite. 8-shot, detachable magazine, micrometer target receiver sights, Mannlicher stock. Tapped for scopes. Shoots all 22 ammo. (V.G. to Excel.) Only \$17.50. 2 for \$30.00.</p>	<p align="center">AMMUNITION SPECIAL:</p> <p>30-06 Ball #2, U. S. Wfs. factory packed. \$6.00 per 100; \$49.50 per 1,000; (8000) \$42.50 per 1,000; (12000) \$40.00 per 1,000.</p> <p align="center">ALL OTHER MODELS, REVOLVERS, PISTOLS, MUZZLE LOADERS—WRITE:</p> <div style="display: flex; justify-content: space-between;"> <div>  </div> <div> <p align="center">INTERNATIONAL FIREARMS CO.</p> </div> <div> <p align="center">CANADIAN BUYERS: Write or see the largest display at 1011 Bleury, Montreal, Que.</p> </div> </div> <p align="center">22 KINGMAN, SAINT ALBANS, VERMONT</p>	

HOLLOW GROUND SCREWDRIVERS

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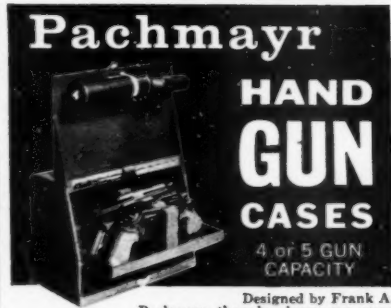
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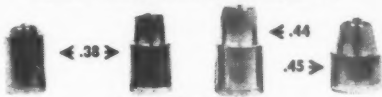
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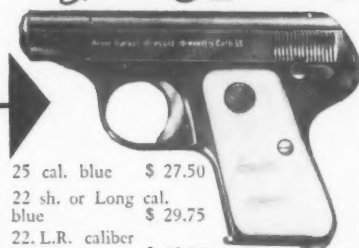
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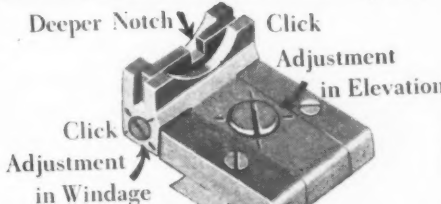
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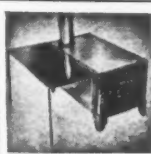
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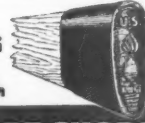
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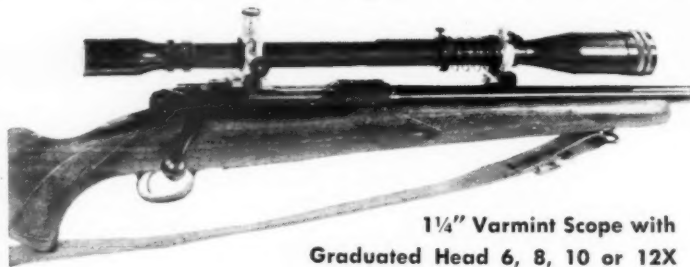
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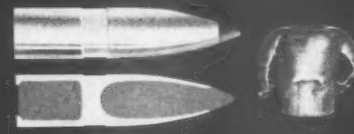


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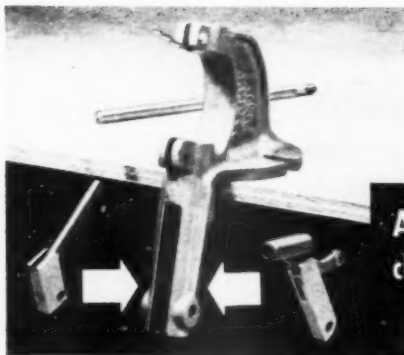
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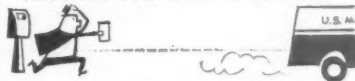
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